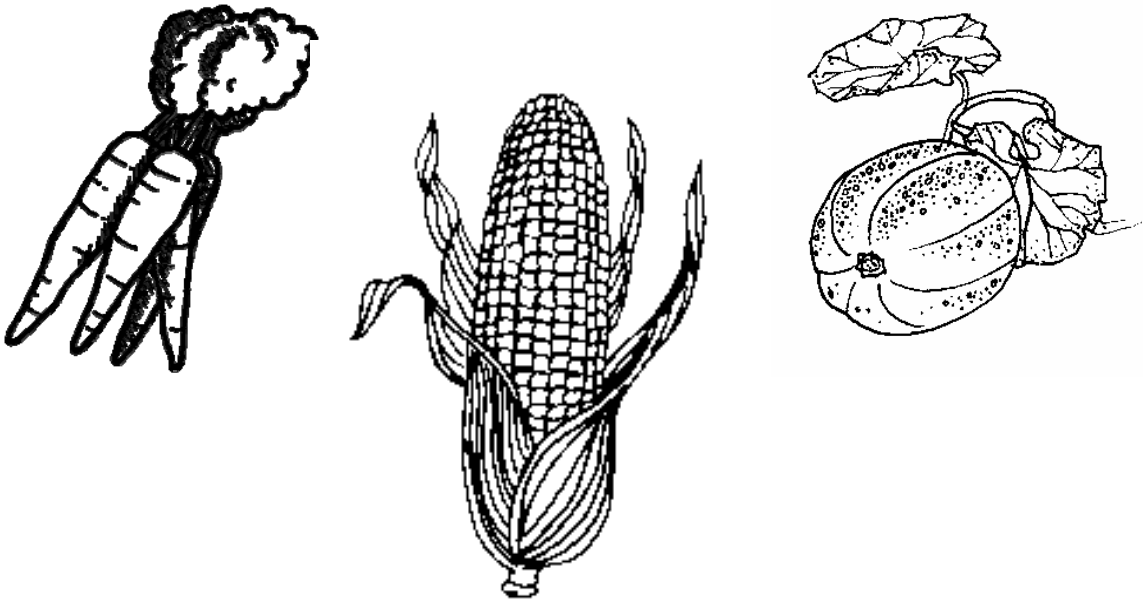
Weed Management In Horticultural Crops

RESEARCH RESULTS
2007



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This report contains the results of research on horticultural crop weed management in Ohio for 2007. This report and other resources are available on the Internet at: **www.oardc.ohio-state.edu/weedworkshop**

This bulletin does not constitute endorsement or specific recommendations. Apology is expressed for any inadvertent errors found in this report.

Final copies of commercial advertisement that will contain data from these results are subject to the author's approval before publication.

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A LIST OF CROP BAYER CODES USED IN THIS REPORT:

ALLCE = Green Onion
CPSAN = Pepper
CUMHY = Canteloupe
CUMSA = Cucumber
CUUHY = Pumpkin (mini)
FRAAN = Strawberry
LYPES = Tomato
MABSD = Apple
PICEA = Blue Spruce
RUBSG = Raspberry
VITLA = Grape
ZEAMS = Sweet Corn

* not official Bayer Code.

A LIST OF ABBREVIATIONS AND DEFINITIONS USED IN THIS REPORT:

BLOOM CL = Bloom Cluster
BURN = Necrotic tissue
CHLOROSIS = Yellow coloration or bleaching of foliage
CIRCUM = Circumference
CLUST NO = Cluster number
CLUST WT = Cluster weight
COLLAR = In corn, the area where the leaf attaches to the stalk
CONTROL = Herbicide efficacy
CUPPING = Upward rolling of foliage
DAT= Days after treatment
DIAM = Diameter
DISTORT = Leaf distortion
GROWTH = Annual increase in length of shoot
IMMAT = Immature fruit
INJURY = Composite assessment of stunting, chlorosis, and other visible effects
LEAF DISTOR = Leaf distortion
MKTB = Marketable
MKTB WT = Marketable weight
NO/PLOT = Number per plot
POST = Postemergent application
POSTD = Postemergence directed spray
POSTHARV = Post harvest
POSTTP = Post-transplant
PRE = Preemergent herbicide application
PRETP = Pre-transplant
PRUN WT = Pruning weight
REST = Remainder of apples on tree excluding 3 selected branches
SHOOT GRO = Shoot growth

SOL SUGAR = Soluble sugar expressed as a percent
STAND CT = Stand count
STUNT = Reduction in height or growth
THIN = Loss of foliage due to herbicide action
TTL MKTB = Total marketable
TTL YLD = Total yield
TWIST = Leaf and/or stem curl
UNMKTB = Unmarketable
VEGETAT = Vegetative
VIGOR = Overall healthy plant appearance
WAEMER = Weeks after emergence
WAT = Weeks after treatment
WILT = A shriveled or dessicated appearance
WRINKLE = A rippled appearance on crop foliage
WT = Weight
YLD = Yield

METHODS OF ASSESSING CROP INJURY AND WEED CONTROL AND DENSITY

Unless otherwise stated, crop injury and weed control were assessed visually. The 0-100 linear scale was used, in which 0 = no crop injury/no control, and 100 = death of crop/complete weed control.

For weed density: LOW= scattered, just a few weeds
MEDIUM= 1 weed per 3 feet of row
HIGH= More than 1 weed per 3 feet of row

A LIST OF WEEDS WITH BAYER CODES USED IN THIS REPORT:

BAYER CODE	COMMON NAME	BOTANICAL NAME
ACCVI	Virginia copperleaf	*Acalypha virginica* L.
AGRASS*	foxtail, crabgrass spp.	*Setaria, Digitaria* spp.
AGGRE	quackgrass	*Elytrigia repens* (L.) Nevski
AMABL	prostrate pigweed	*Amaranthus blitoides S. Wats.*
AMARE	redroot pigweed	*Amaranthus retroflexus* L.
AMAXX	pigweed spp.	*Amaranthus* spp.
AMBEL	common ragweed	*Ambrosia artemisiifolia* L.
APPCA	hemp dogbane	*Apocynum cannabinum* L.
ASTPI	white-heath aster	*Aster plosus* Willd.
CAGSE	hedge bindweed	*Calystegia sepium* (L.) R. Br.
CAPBP	shepherd's purse	*Capsella bursa-pastoris* (L.) Medicus
CARHI	hairy bittercress	*Cardamine pratensis* L.
CERVU	mouseear chickweed	*Cerastium vulgatum* L.
CHEAL	common lambsquarters	*Chenopodium album* L.
CIRAR	Canada thistle	*Cirsium arvense* (L.) Scop.
CYPES	yellow nutsedge	*Cyperus esculentes* L.
DACGL	orchardgrass	*Dactylis glomerata* L.
DAUCA	wild carrot	*Daucus carota* L.
DIGSA	large crabgrass	*Digitaria sanguinalis* (L.) Scop.
EPHMA	spotted spurge	*Euphorbia maculata* L.
ERIAN	annual fleabane	*Erigermannuus* (L.) Perp.
GLEHE	ground ivy	*Glechoma hederacea* L.
LAMPU	purple deadnettle	*Lamium purpureum* L.
LEPVI	Virginia pepperweed	*Lepidium virginicum* L.
MALNE	common mallow	*Malva neglecta* Wallr.
MOLVE	carpetweed	*Mollugo verticillata* L.
MORAL	white mulberry	*Morus alba* L.
MUHFR	wirestem muhly	*Muhlenbergia frondosa* (Poir.) Fern
MUHSC	nimblewill	*Muhlenbergia schreberi* J.F.Gmel

OXAST	yellow woodsorrel	*Oxalis stricta* L.
PANDI	fall panicum	*Panicum dichotomiflorum* Michx.
PLALA	buckhorn plantain	*Plantago lanceolata* L.
PLAMA	broadleaf plantain	*Plantago major* L.
POANN	annual bluegrass	*Poa annua* L.
POLAV	prostrate knotweed	*Polygonum aviculare* L.
POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum* L.
POROL	common purslane	*Portulaca oleracea* L.
PRTQU	Virginia creeper	*Parthenocissus quinquifolia* (L.) Planch.
PRUVU	healall	*Prunella vulgaris* L.
RUBFR	bramble	*Rubus fruticosis* L.
RUMAA	red sorrel	*Rumex acetosella* L.
RUMOB	broadleaf dock	*Rumex obtusifolius* L.
SETFA	giant foxtail	*Setaria faberii* L.
SENVU	common groundsel	*Senecio vularis* L.
SOLPT	Eastern black nightshade	*Solanum ptycanthum* Dun.
SOOCA	Canada goldenrod	*Solidago canadensis* L.
STEME	common chickweed	*Stellaria media* (L.) Vill
TAROF	dandelion	*Taraxacum officinale* Weber in Wiggers
TOXRA	poison ivy	*Toxicodendron* radic ans (L.) Ktze.
TRFPR	red clover	*Trifolium pratense* L.
TRFRE	white clover	*Trifolium repens* L.

* not official Bayer Code.

Note: Control ratings for species not present at herbicide application are provided. These species will be listed under ‘ Weed Stage At Each Application’, but growth stage iinformation is not available.

HERBICIDE LIST

TRADE NAME	COMMON NAME	FORMULATION	MANUFACTURER
Aatrex	atrazine	4 L	Syngenta
Arsenal	isopropylamine salt of imazapyr	28.7 EC	BASF
Callisto	mesotrione	4.0 SC	Syngenta
Casoron	dichlobenil	4 G	Chemtura Corporation
Chateau	flumioxazin	51 WDG	Valent
Command	clomazone	3 ME	FMC Corporation
Dual Magnum	s-metolachlor	7.62 EC	Syngenta
Dual II Magnum	s-metolachlor + safener	7.64 EC	Syngenta
Escort	metsulfuron methyl	60 WG	DuPont
Flexstar	fomesafen	1.9L	Syngenta
Goaltender	oxyfluoren	4 L	Dow AgroSciences LLC
Gramaxone Max	paraquat	3 L	Syngenta
Harmony GT	thifensulfuron	75 DF	DuPont
Impact	topramezone	2.8 L	AMVAC
Karmex	diuron	80 DF	Griffin LLC
KJM 44	N/A	80 WG	DuPont
Krenite S	Fosamine asmmonium	4 L	DuPont
Lorox	linuron	50 DF	Griffin LLC
Matrix	rimsulfuron	25 DF	DuPont
Option	foramsulfuron	35 WDG	Bayer CropScience
Oust XP	sulfometuron methyl	75 DF	DuPont
Outlook	dimethenamid	6 L	BASF
Payload	flumioxazin	51 WDG	Valent
Permit	halosulfuron	75 DF	Monsanto
Princep	simazine	4 L	Syngenta
Princep Caliber	simazine	90	Syngenta
Roundup W/M	glyphosate	4.5 L	Monsanto
Sandea	halosulfuron-methyl	75 DF	Gowan Company
Select	clethodim	2 L	Valent
Sencor	metribuzin	75 DF	Bayer CropScience
Sinbar	terbacil	80 WP	DuPont
Spartan	sulfentrazone	75 DF	FMC Corporation
Stinger	clopyralid	3 L	Dow AgroSciences LLC
V10142	NA	75 WD	Valent
Valor	flumioxazin	51 WDG	Valent
Velpar	hexazinone	75 WDG	DuPont

ADJUVANT LIST

NAME	ABBREVIATION	DESCRIPTION
Ammonium sulfate	AMS	Spray grade fertilizer
Crop Oil Concentrate	COC	Paraffin base petroleum oil
28% N	UAN	Urea ammonia nitrate
Induce NIS		Nonionic surfactant
MSO MSO		Methylated seed oil

Daily Weather Summary for 4/1/2006 to 8/31/2006 at OARDC – North Central Agricultural Research Station, Fremont, Ohio 43420
Sandusky County, Latitude: 41° 21' N; Longitude: 83° 07' W; Elevation: 636 ft.

APRIL				MAY				JUNE				JULY				AUGUST			
Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F
4/1/06	0.52	42	70	5/1/06	0	49	73	6/1/06	0	63	88	7/1/06	0	-	82	8/1/06	0	68	95
4/2/06	0	36	53	5/2/06	0	49	74	6/2/06	0	59	76	7/2/06	0	72	91	8/2/06	0	72	95
4/3/06	0.38	46	57	5/3/06	0.39	49	65	6/3/06	0.02	50	73	7/3/06	0.12	59	86	8/3/06	0	69	94
4/4/06	0	25	60	5/4/06	0	50	74	6/4/06	0.52	51	75	7/4/06	0.78	63	82	8/4/06	0.03	55	87
4/5/06	0	28	52	5/5/06	0	38	76	6/5/06	0.03	44	73	7/5/06	0	56	82	8/5/06	0	57	87
4/6/06	0	28	56	5/6/06	0	43	71	6/6/06	0	48	80	7/6/06	0	47	74	8/6/06	0	52	85
4/7/06	0.41	34	64	5/7/06	0	29	59	6/7/06	0	54	84	7/7/06	0	48	77	8/7/06	0	66	88
4/8/06	0	29	65	5/8/06	0	32	67	6/8/06	0	54	75	7/8/06	0	48	80	8/8/06	0	59	88
4/9/06	0	26	45	5/9/06	0	41	74	6/9/06	0.07	52	82	7/9/06	0	57	83	8/9/06	0	48	80
4/10/06	0	29	56	5/10/06	0	46	76	6/10/06	0	48	82	7/10/06	0	-	83	8/10/06	0	56	83
4/11/06	0	34	65	5/11/06	0.96	53	77	6/11/06	0	41	70	7/11/06	0.02	58	82	8/11/06	0	60	82
4/12/06	0	43	76	5/12/06	0.18	39	61	6/12/06	0	45	68	7/12/06	0.42	65	83	8/12/06	0	43	79
4/13/06	0.02	41	75	5/13/06	0.14	38	50	6/13/06	0	44	70	7/13/06	1.36	60	81	8/13/06	0	41	80
4/14/06	0.02	45	78	5/14/06	0.53	42	60	6/14/06	0	51	73	7/14/06	0	57	82	8/14/06	0	56	84
4/15/06	0	50	77	5/15/06	0.43	44	59	6/15/06	0	45	75	7/15/06	0.74	63	89	8/15/06	0.04	49	85
4/16/06	0	39	74	5/16/06	0.54	45	53	6/16/06	0	50	79	7/16/06	0	60	90	8/16/06	0	48	84
4/17/06	0.01	40	62	5/17/06	0.17	46	64	6/17/06	0	58	88	7/17/06	0	64	92	8/17/06	0	52	83
4/18/06	0	33	57	5/18/06	0.06	43	71	6/18/06	0	67	90	7/18/06	0	64	94	8/18/06	0	54	87
4/19/06	0	36	62	5/19/06	0.14	39	62	6/19/06	0.94	61	87	7/19/06	0	58	82	8/19/06	0	63	87
4/20/06	0	32	71	5/20/06	0	37	61	6/20/06	0.37	55	81	7/20/06	0	59	88	8/20/06	0	57	81
4/21/06	0	42	78	5/21/06	0	41	67	6/21/06	0.09	55	80	7/21/06	0	67	88	8/21/06	0	45	77
4/22/06	0.76	48	78	5/22/06	0	34	61	6/22/06	1.99	56	81	7/22/06	0.06	59	84	8/22/06	0	49	84
4/23/06	0.02	40	78	5/23/06	0	32	62	6/23/06	1.29	59	89	7/23/06	0	-	80	8/23/06	0	49	85
4/24/06	0.04	37	79	5/24/06	0	39	70	6/24/06	0	51	75	7/24/06	0	53	82	8/24/06	-	55	84
4/25/06	0	39	66	5/25/06	0.32	48	78	6/25/06	0	46	76	7/25/06	0	60	86	8/25/06	0.33	57	82
4/26/06	0	21	65	5/26/06	0.73	57	85	6/26/06	0	53	78	7/26/06	0	62	89	8/26/06	0	56	88
4/27/06	0	29	50	5/27/06	0.41	52	76	6/27/06	0.03	59	80	7/27/06	0.22	62	88	8/27/06	0.38	64	88
4/28/06	0	27	61	5/28/06	0	58	84	6/28/06	0	57	85	7/28/06	1.32	63	85	8/28/06	0.03	62	78
4/29/06	0.05	33	70	5/29/06	0	65	89	6/29/06	0.13	52	84	7/29/06	0	64	87	8/29/06	1.54	60	75
4/30/06	0	47	61	5/30/06	0	61	91	6/30/06	0	51	79	7/30/06	0	67	90	8/30/06	0.16	58	69
				5/31/06	0	63	92					7/31/06	.03	68	91	8/31/06	-	60	76

Daily Weather Summary for 4/1/2006 to 8/31/2006 at OARDC, Wooster, Ohio 44691
Wayne County, one mile south of Wooster; Latitude: 8340° 47' N; Longitude: 81° 55' W; Elevation: 1020 ft.

APRIL			
Date	Precip (in)	Min. Temp. °F	Max. Temp. °F
4/1/06	0	47.5	59.4
4/2/06	0.01	43.1	57.2
4/3/06	0.03	37.1	67.8
4/4/06	0	29.7	53.0
4/5/06	0.04	31.8	49.2
4/6/06	0	31.1	63.0
4/7/06	0.62	39.2	75.1
4/8/06	0	30.2	42.1
4/9/06	0	24.1	53.6
4/10/06	0	29.3	66.1
4/11/06	0	34.2	76.1
4/12/06	0.13	56.5	74.4
4/13/06	0	46.9	75.7
4/14/06	0.03	56.7	76.3
4/15/06	0	48.9	71.2
4/16/06	0.03	39.8	65.6
4/17/06	0.07	44.0	64.4
4/18/06	0	34.5	69.3
4/19/06	0	40.6	74.1
4/20/06	0	39.0	79.3
4/21/06	0.12	57.2	75.1
4/22/06	0.01	56.1	74.3
4/23/06	0.23	49.8	65.4
4/24/06	0	44.8	63.4
4/25/06	0.17	31.6	54.7
4/26/06	0.01	24.5	59.8
4/27/06	0	32.7	70.0
4/28/06	0	35.3	65.1
4/29/06	0	37.0	70.9
4/30/06	0	53.1	74.6

MAY			
Date	Precip (in)	Min. Temp. °F	Max. Temp. °F
5/1/06	0	50.5	75.3
5/2/06	0.30	45.3	61.6
5/3/06	0.07	50.7	71.8
5/4/06	0	47.9	75.7
5/5/06	0	42.2	70.8
5/6/06	0	38.7	57.6
5/7/06	0	29.6	68.5
5/8/06	0	34.7	70.0
5/9/06	0	39.9	74.0
5/10/06	0.17	52.6	78.2
5/11/06	0.17	47.3	66.2
5/12/06	0.30	45.3	52.5
5/13/06	0.18	45.3	62.5
5/14/06	0.60	49.1	63.6
5/15/06	0.63	47.6	52.6
5/16/06	0.29	47.8	60.6
5/17/06	0.42	51.9	70.4
5/18/06	0.57	43.0	59.6
5/19/06	0.14	43.1	59.5
5/20/06	0	40.2	63.6
5/21/06	0.08	40.4	61.6
5/22/06	0.06	37.9	60.0
5/23/06	0	32.8	65.2
5/24/06	0	38.4	76.7
5/25/06	1.18	54.9	83.8
5/26/06	0.14	59.5	73.9
5/27/06	0.01	55.4	83.8
5/28/06	0	57.0	89.7
5/29/06	0	60.1	91.9
5/30/06	0	61.7	92.7
5/31/06	0.52	63.0	88.7

JUNE			
Date	Precip (in)	Min. Temp °F	Max. Temp °F
6/1/06	0.23	66	81.5
6/2/06	0.58	54.8	66.7
6/3/06	0.02	51.9	73.2
6/4/06	0.19	50.5	69.2
6/5/06	0	45.3	77.2
6/6/06	0	48.7	83.6
6/7/06	0	54.3	80.2
6/8/06	0	54.5	81.3
6/9/06	0	53.9	72.7
6/10/06	0	45.2	66.6
6/11/06	0	41.4	67.2
6/12/06	0	44.6	68.9
6/13/06	0	46.5	74.8
6/14/06	0	49..3	75.3
6/15/06	0	48.6	78.2
6/16/06	0	45.9	86.6
6/17/06	0	56.5	88.8
6/18/06	0	71.3	87.9
6/19/06	0.35	61.2	83.1
6/20/06	0	56.0	80.3
6/21/06	0.71	53.2	78.3
6/22/06	1.37	64.5	90.5
6/23/06	0.08	59.8	74.4
6/24/06	0	52.7	77.9
6/25/06	0.01	49.4	81.5
6/26/06	0	63.4	80.2
6/27/06	0	63.6	84.8
6/28/06	0.53	58.4	79.0
6/29/06	0.01	55.7	75.6
6/30/06	0	54.4	80.2

JULY			
Date	Precip (in)	Min. Temp. °F	Max. Temp. °F
7/1/06	0	54.3	87.5
7/2/06	0.29	65.4	85.2
7/3/06	0.05	65.3	82.7
7/4/06	0.60	67.4	77.4
7/5/06	0	53.7	72.4
7/6/06	0	50.1	74.4
7/7/06	0	50.4	80.2
7/8/06	0	54.1	82.1
7/9/06	0.01	55.9	82.4
7/10/06	0.92	65.2	83.6
7/11/06	0.06	62.1	82.4
7/12/06	1.2	68.6	78.9
7/13/06	0	67.8	86.3
7/14/06	0.77	64.5	89.2
7/15/06	0	68.8	88.1
7/16/06	0	65.3	94.1
7/17/06	0.01	64.9	91.7
7/18/06	0	67.5	85.7
7/19/06	0	66	90.8
7/20/06	0	66.7	88.4
7/21/06	0.24	69.7	84.7
7/22/06	2.18	58.7	75.4
7/23/06	0.10	56.0	80.1
7/24/06	0	57.8	84.3
7/25/06	0	60.6	87.6
7/26/06	0	62.6	87.2
7/27/06	0	72.2	82.3
7/28/06	0.02	69.8	85.5
7/29/06	0	69.0	87.4
7/30/06	0.03	71.5	89.3
7/31/06	0	71.9	92.0

AUGUST			
Date	Precip. (in)	Min. Temp °F	Max. Temp °F
8/1/06	0	74.1	92.3
8/2/06	0.09	73.4	91.5
8/3/06	0	71.0	88.5
8/4/06	0	63.4	84.0
8/5/06	0	59.9	86.4
8/6/06	0	60.4	89.1
8/7/06	0	70.8	88.5
8/8/06	0	58.9	81.7
8/9/06	0	54.1	84.2
8/10/06	0	63.6	83.1
8/11/06	0	59.1	80.9
8/12/06	0	52.3	80.2
8/13/06	0	49.8	85.3
8/14/06	0.34	57.6	86.1
8/15/06	0	58.7	81.7
8/16/06	0	54.8	83.6
8/17/06	0	56.1	88.1
8/18/06	0.04	65.8	81.6
8/19/06	0.01	69.4	84.3
8/20/06	0	55.2	76.5
8/21/06	0.01	49.5	82.0
8/22/06	0	53.2	84.7
8/23/06	0.01	56.4	83.3
8/24/06	0.03	56.6	81.5
8/25/06	0	62.0	87.4
8/26/06	0	61.7	89.4
8/27/06	0.39	69.7	83.7
8/28/06	0.13	68.1	75.0
8/29/06	0.21	66.3	73.3
8/30/06	0	64.0	72.3
8/31/06	0	62.4	74.0

Daily Weather Summary for 4/1/2006 to 7/31/2006 at OARDC – Muck Crops Agricultural Research Station, Willard, Ohio 44890

Huron County, Latitude: 41° 01' N; Longitude: 82° 44' W.

APRIL				MAY				JUNE				JULY				AUGUST			
Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp. °F	Max. Temp. °F
4/1/06	0	44.5	56.6	5/1/06	0	53.8	71.8	6/1/06	0	66.0	76.4	7/1/06	0	54.8	89.4	8/1/06	0	75.0	93.7
4/2/06	0.50	40.8	56.6	5/2/06	0.15	54.7	66.9	6/2/06	0.18	55.9	67.6	7/2/06	0.51	66.7	84.3	8/2/06	0	73.9	92.9
4/3/06	0.06	34.6	60.1	5/3/06	0.12	54.0	73.2	6/3/06	0.02	52.9	75.0	7/3/06	0.13	63.3	78.8	8/3/06	0.07	71.2	85.9
4/4/06	0	30.6	50.3	5/4/06	0	51.2	78.8	6/4/06	0.14	51.7	69.4	7/4/06	0.13	65.0	78.4	8/4/06	0	62.8	84.7
4/5/06	0	30.6	53.1	5/5/06	0	41.4	71.2	6/5/06	0	46.0	79.9	7/5/06	0	55.2	73.1	8/5/06	0	58.6	85.0
4/6/06	0	33.0	62.8	5/6/06	0	41.6	60.0	6/6/06	0	48.2	88.1	7/6/06	0	49.6	75.5	8/6/06	0	58.6	87.6
4/7/06	0.56	35.4	71.1	5/7/06	0	33.4	67.4	6/7/06	0	56.9	75.3	7/7/06	0	47.4	78.3	8/7/06	0	69.4	91.1
4/8/06	0	26.4	38.5	5/8/06	0	34.2	73.1	6/8/06	0.13	55.9	81.4	7/8/06	0	51.3	79.9	8/8/06	0	58.6	80.2
4/9/06	0	22.0	51.7	5/9/06	0	44.2	74.3	6/9/06	0	54.5	71.9	7/9/06	0	58.1	80.9	8/9/06	0	49.8	81.8
4/10/06	0	30.6	63.5	5/10/06	0.24	55.4	77.4	6/10/06	0	49.1	67.4	7/10/06	0.03	64.8	83.6	8/10/06	0	63.6	82.0
4/11/06	0	33.8	75.3	5/11/06	0.06	50.5	65.0	6/11/06	0	42.5	67.1	7/11/06	0.72	62.9	82.0	8/11/06	0	55.9	80.0
4/12/06	0.15	55.9	76.0	5/12/06	0.52	45.1	50.8	6/12/06	0	45.6	67.2	7/12/06	0.58	69.4	77.7	8/12/06	0	46.5	81.1
4/13/06	0	43.7	77.4	5/13/06	0.36	45.1	59.5	6/13/06	0	44.4	73.8	7/13/06	0	68.6	83.2	8/13/06	0	45.6	82.9
4/14/06	0.19	56.6	76.0	5/14/06	0.57	48.3	58.6	6/14/06	0	52.1	80.4	7/14/06	0.72	64.0	87.9	8/14/06	0.10	59.3	85.6
4/15/06	0	48.1	72.5	5/15/06	0.66	48.2	50.6	6/15/06	0	46.9	79.2	7/15/06	0	68.9	87.4	8/15/06	0	54.8	83.4
4/16/06	0.09	40.0	66.3	5/16/06	0.66	48.9	61.6	6/16/06	0	48.0	86.1	7/16/06	0	63.1	89.8	8/16/06	0	50.3	84.3
4/17/06	0.01	40.0	57.3	5/17/06	0.10	51.5	70.1	6/17/06	0	60.4	90.1	7/17/06	0	66.9	89.0	8/17/06	0	55.0	86.3
4/18/06	0	33.8	64.9	5/18/06	0.34	44.2	59.7	6/18/06	0.28	69.1	89.4	7/18/06	0	67.1	83.0	8/18/06	0	64.7	86.3
4/19/06	0	36.2	72.5	5/19/06	0.04	42.9	61.1	6/19/06	0.86	61.9	82.9	7/19/06	0	64.7	87.4	8/19/06	0.02	67.4	79.7
4/20/06	0	36.2	78.8	5/20/06	0	40.7	65.2	6/20/06	0	58.6	77.9	7/20/06	0	64.0	86.1	8/20/06	0	55.5	75.1
4/21/06	0.07	55.2	76.7	5/21/06	0.07	43.1	61.7	6/21/06	1.61	60.2	79.0	7/21/06	0	69.8	83.4	8/21/06	0	48.0	81.1
4/22/06	0.03	53.1	73.2	5/22/06	0	37.1	62.3	6/22/06	0.86	64.7	89.2	7/22/06	0.81	59.3	75.8	8/22/06	0	52.2	83.2
4/23/06	0.38	47.4	64.9	5/23/06	0	34.8	66.4	6/23/06	0.03	62.4	71.9	7/23/06	0.01	53.3	79.2	8/23/06	0	55.2	84.3
4/24/06	0	44.5	62.2	5/24/06	0.30	40.1	74.8	6/24/06	0	54.3	75.0	7/24/06	0	58.1	82.5	8/24/06	0.07	57.4	80.9
4/25/06	0.17	32.2	49.6	5/25/06	0.84	56.8	83.8	6/25/06	0	47.8	77.9	7/25/06	0	63.3	85.9	8/25/06	0	60.2	86.1
4/26/06	0	24.6	58.0	5/26/06	0.46	59.9	74.1	6/26/06	0	58.1	78.3	7/26/06	0.19	64.7	85.2	8/26/06	0	57.6	87.7
4/27/06	0	35.4	69.7	5/27/06	0	54.1	82.3	6/27/06	0	63.1	83.0	7/27/06	0.26	71.9	81.8	8/27/06	0.57	69.3	78.8
4/28/06	0	33.8	62.8	5/28/06	0	59.3	86.6	6/28/06	0	60.2	82.7	7/28/06	0.22	67.9	84.3	8/28/06	0.39	67.9	74.8
4/29/06	0	36.2	70.4	5/29/06	0	63.5	90.3	6/29/06	0.03	55.0	77.1	7/29/06	0	87.7	87.7	8/29/06	0.25	65.3	72.9
4/30/06	0	50.3	72.5	5/30/06	0	62.9	90.7	6/30/06	0	53.3	80.2	7/30/06	0	89.8	89.8	8/30/06	0	60.0	73.8
				5/31/06	0	65.9	89.0					7/31/06	0	92.2	92.2	8/31/06	0.02	62.1	-

Daily Weather Summary for 4/1/2007 to 8/31/2007 at OARDC – North Central Agricultural Research Station, Fremont, Ohio 43420
Sandusky County, Latitude: 41° 21' N; Longitude: 83° 07' W; Elevation: 636 ft.

APRIL				MAY				JUNE				JULY				AUGUST			
Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp °F	Date	Precip (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp °F	Max. Temp °F
4/1/07	0.09	50	72	5/1/07	0.89	50	84	6/1/07	0	68	89	7/1/07	0	59	73	8/1/07	0	65	92
4/2/07	0	50	69	5/2/07	0.01	45	60	6/2/07	0	67	90	7/2/07	0	48	74	8/2/07	0	69	91
4/3/07	0	45	81	5/3/07	0	45	61	6/3/07	0.19	65	79	7/3/07	0	55	85	8/3/07	0	68	90
4/4/07	0	28	61	5/4/07	0	46	65	6/4/07	0.07	64	76	7/4/07	0	66	83	8/4/07	0	60	81
4/5/07	0	24	32	5/5/07	0	52	60	6/5/07	0	52	64	7/5/07	0.04	63	85	8/5/07	0.85	63	81
4/6/07	0	24	32	5/6/07	0	47	57	6/6/07	0.01	49	72	7/6/07	0	58	86	8/6/07	0	73	88
4/7/07	0	21	31	5/7/07	0	39	75	6/7/07	0	56	95	7/7/07	0	58	90	8/7/07	0.89	74	91
4/8/07	0	23	35	5/8/07	0	48	86	6/8/07	0.01	62	91	7/8/07	0	64	95	8/8/07	0	75	91
4/9/07	0	26	41	5/9/07	0.03	64	84	6/9/07	0	52	72	7/9/07	0	72	95	8/9/07	1.14	72	82
4/10/07	0	24	47	5/10/07	0.01	58	81	6/10/07	0	47	77	7/10/07	0	72	92	8/10/07	0.05	69	82
4/11/07	0.68	35	52	5/11/07	0	56	81	6/11/07	0	53	82	7/11/07	0.09	64	81	8/11/07	0	63	82
4/12/07	0.02	37	47	5/12/07	0	48	63	6/12/07	0	55	83	7/12/07	0	54	82	8/12/07	0.03	62	89
4/13/07	0	36	53	5/13/07	0	37	61	6/13/07	0	60	89	7/13/07	0	55	78	8/13/07	0	62	78
4/14/07	0	30	43	5/14/07	0	39	84	6/14/07	0	60	84	7/14/07	0.07	57	87	8/14/07	0	56	81
4/15/07	0.11	32	50	5/15/07	0.02	61	91	6/15/07	0	58	81	7/15/07	0.02	60	79	8/15/07	0.05	65	79
4/16/07	0	35	58	5/16/07	0.18	49	67	6/16/07	0	53	90	7/16/07	0	53	84	8/16/07	0.15	67	85
4/17/07	0	36	63	5/17/07	0.09	44	53	6/17/07	0	69	88	7/17/07	0.24	65	74	8/17/07	0	60	81
4/18/07	0	38	50	5/18/07	0.01	41	64	6/18/07	0	68	96	7/18/07	0.36	61	88	8/18/07	0.01	50	72
4/19/07	0	40	55	5/19/07	0	44	74	6/19/07	0.3	66	84	7/19/07	0.44	64	77	8/19/07	1.3	55	64
4/20/07	0	36	67	5/20/07	0	51	74	6/20/07	0	56	82	7/20/07	0	56	76	8/20/07	3.88	62	73
4/21/07	0	35	74	5/21/07	0	46	68	6/21/07	0.03	59	87	7/21/07	0	52	75	8/21/07	0.14	67	73
4/22/07	0	46	81	5/22/07	0	49	88	6/22/07	0	54	75	7/22/07	0	51	79	8/22/07	0.01	66	90
4/23/07	0	59	81	5/23/07	0	64	92	6/23/07	0	50	74	7/23/07	0	54	80	8/23/07	0	74	92
4/24/07	0	50	63	5/24/07	0	63	90	6/24/07	0	55	81	7/24/07	0	59	76	8/24/07	0.49	70	93
4/25/07	0.91	44	54	5/25/07	0.01	65	86	6/25/07	0	61	89	7/25/07	0.01	57	78	8/25/07	0.34	64	80
4/26/07	1.45	45	71	5/26/07	0.32	63	71	6/26/07	0	67	93	7/26/07	0.07	60	76	8/26/07	0	60	76
4/27/07	0	49	58	5/27/07	0.25	62	75	6/27/07	0.19	70	92	7/27/07	3.28	65	87	8/27/07	0	56	80
4/28/07	0.14	47	67	5/28/07	0	54	81	6/28/07	0.01	67	77	7/28/07	0	68	80	8/28/07	0	58	88
4/29/07	0	47	73	5/29/07	0	57	86	6/29/07	0	57	73	7/29/07	0	62	81	8/29/07	0	67	92
4/30/07	0	53	67	5/30/07	0.04	62	89	6/30/07	0	52	79	7/30/07	0	64	83	8/30/07	0	60	76
				5/31/07	0	64	89					7/31/07	0	59	90	8/31/07	0	53	74

Daily Weather Summary for 4/1/2007 to 8/31/2007 at OARDC, Wooster, Ohio 44691
Wayne County, one mile south of Wooster; Latitude: 40° 47' N; Longitude: 81° 55' W; Elevation: 1020 ft.

APRIL				MAY				JUNE				JULY				AUGUST			
Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp °F	Date	Precip (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp °F	Max. Temp °F
4/1/07	0.23	52	71	5/1/07	1.13	46	84	6/1/07	0.08	64	87	7/1/07	0	51	72	8/1/07	0	62	89
4/2/07	0	51	70	5/2/07	0.01	48	66	6/2/07	0	61	86	7/2/07	0	44	76	8/2/07	0	65	90
4/3/07	0	40	79	5/3/07	0	43	71	6/3/07	0.42	64	77	7/3/07	0	54	83	8/3/07	0	67	89
4/4/07	0.03	26	62	5/4/07	0	43	74	6/4/07	0.02	62	76	7/4/07	0.03	57	81	8/4/07	0	65	87
4/5/07	0	24	30	5/5/07	0	54	73	6/5/07	0.03	51	63	7/5/07	0.94	65	83	8/5/07	0.38	61	75
4/6/07	0	24	32	5/6/07	0	43	65	6/6/07	0.01	43	72	7/6/07	0	60	84	8/6/07	0	73	88
4/7/07	0	21	29	5/7/07	0	39	73	6/7/07	0	52	90	7/7/07	0	56	87	8/7/07	0	71	90
4/8/07	0	24	32	5/8/07	0	40	83	6/8/07	0.96	66	89	7/8/07	0	58	91	8/8/07	0	76	92
4/9/07	0	28	39	5/9/07	0	50	85	6/9/07	0	51	73	7/9/07	0	70	91	8/9/07	1.18	69	88
4/10/07	0	25	48	5/10/07	0	59	81	6/10/07	0	44	76	7/10/07	0	65	90	8/10/07	0.01	64	82
4/11/07	0.27	34	51	5/11/07	0	53	80	6/11/07	0	49	79	7/11/07	0.25	57	80	8/11/07	0	59	85
4/12/07	0.11	34	47	5/12/07	0	47	72	6/12/07	0	51	83	7/12/07	0	54	79	8/12/07	0	61	86
4/13/07	0.01	36	50	5/13/07	0	36	69	6/13/07	0.08	55	89	7/13/07	0	54	78	8/13/07	0	58	79
4/14/07	0.3	30	43	5/14/07	0	35	77	6/14/07	0.01	57	82	7/14/07	0	50	85	8/14/07	0.01	51	80
4/15/07	0.01	33	46	5/15/07	0.09	59	85	6/15/07	0	55	79	7/15/07	0	54	81	8/15/07	0	60	83
4/16/07	0	34	52	5/16/07	0.93	47	65	6/16/07	0	54	82	7/16/07	0	48	83	8/16/07	0.47	68	85
4/17/07	0	36	56	5/17/07	0.02	43	54	6/17/07	0.07	59	89	7/17/07	0.05	59	83	8/17/07	0.01	65	79
4/18/07	0	37	51	5/18/07	0	39	61	6/18/07	0.01	62	92	7/18/07	0	64	85	8/18/07	0	50	71
4/19/07	0	41	59	5/19/07	0	35	65	6/19/07	0.2	66	81	7/19/07	1.54	59	77	8/19/07	0.33	58	65
4/20/07	0	34	69	5/20/07	0	48	76	6/20/07	0	52	77	7/20/07	0.01	53	73	8/20/07	0.79	60	72
4/21/07	0	33	75	5/21/07	0	44	70	6/21/07	0.01	52	84	7/21/07	0	47	75	8/21/07	1.53	67	79
4/22/07	0	38	78	5/22/07	0	47	84	6/22/07	0	49	74	7/22/07	0	48	79	8/22/07	0.01	68	86
4/23/07	0.01	53	77	5/23/07	0	53	88	6/23/07	0	45	75	7/23/07	0	51	81	8/23/07	0	71	92
4/24/07	0	48	68	5/24/07	0	56	87	6/24/07	0	49	77	7/24/07	0.45	59	76	8/24/07	0	69	92
4/25/07	1.06	44	51	5/25/07	0.25	59	84	6/25/07	0	58	89	7/25/07	0.02	58	79	8/25/07	0.03	68	83
4/26/07	0.19	46	71	5/26/07	0.18	62	80	6/26/07	0	65	91	7/26/07	0.34	62	76	8/26/07	0.01	60	78
4/27/07	0.02	50	62	5/27/07	0.01	59	80	6/27/07	0.01	69	89	7/27/07	2.17	64	82	8/27/07	0	56	82
4/28/07	0.01	48	62	5/28/07	0	56	81	6/28/07	0.06	69	83	7/28/07	0.01	65	81	8/28/07	0	55	87
4/29/07	0	46	69	5/29/07	0	52	85	6/29/07	0	54	76	7/29/07	0	64	85	8/29/07	0	61	91
4/30/07	0	54	71	5/30/07	0	57	88	6/30/07	0	50	79	7/30/07	0	61	86	8/30/07	0	62	75
				5/31/07	0.03	61	89					7/31/07	0	55	87	8/31/07	0	55	76

Daily Weather Summary for 4/1/2007 to 8/31/2007 at OARDC - Muck Crops Agricultural Research Station, Willard, Ohio 44890
Huron County, Latitude: 41° 01' N; Longitude: 82° 44' W.

APRIL				MAY				JUNE				JULY				AUGUST			
Date	Precip (in)	Min. Temp °F	Max. Temp. °F	Date	Precip (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip (in)	Min. Temp °F	Max. Temp °F	Date	Precip (in)	Min. Temp. °F	Max. Temp. °F	Date	Precip. (in)	Min. Temp °F	Max. Temp °F
4/1/07	0	55	70	5/1/07	0.65	50	85	6/1/07	0	64	89	7/1/07	0	52	72	8/1/07	0	63	91
4/2/07	0	53	68	5/2/07	0	45	61	6/2/07	0.4	65	90	7/2/07	0	43	74	8/2/07	0	68	90
4/3/07	0	43	79	5/3/07	0	43	69	6/3/07	0.58	64	78	7/3/07	0	53	82	8/3/07	0	68	89
4/4/07	0	25	60	5/4/07	0	42	75	6/4/07	0.64	61	75	7/4/07	0	64	83	8/4/07	0	61	86
4/5/07	0	22	29	5/5/07	0	54	69	6/5/07	0.15	51	63	7/5/07	0.07	68	84	8/5/07	0.41	60	78
4/6/07	0	22	31	5/6/07	0	40	66	6/6/07	0.01	45	72	7/6/07	0	59	85	8/6/07	0	73	88
4/7/07	0	20	28	5/7/07	0	38	75	6/7/07	0	60	90	7/7/07	0	56	88	8/7/07	0.85	74	90
4/8/07	0	21	31	5/8/07	0	44	83	6/8/07	0.73	62	90	7/8/07	0	61	92	8/8/07	0.57	71	90
4/9/07	0	27	37	5/9/07	0	58	86	6/9/07	0	52	70	7/9/07	0	70	93	8/9/07	0.99	70	87
4/10/07	0	26	45	5/10/07	0.01	61	81	6/10/07	0	45	76	7/10/07	0.05	67	88	8/10/07	0.01	69	80
4/11/07	0	32	50	5/11/07	0	54	81	6/11/07	0	52	79	7/11/07	0.04	60	80	8/11/07	0	60	81
4/12/07	0	34	46	5/12/07	0	46	66	6/12/07	0	51	81	7/12/07	0.03	53	82	8/12/07	0	60	86
4/13/07	0	34	48	5/13/07	0	35	65	6/13/07	0.04	56	88	7/13/07	0.01	55	77	8/13/07	0	60	77
4/14/07	0	31	41	5/14/07	0	39	81	6/14/07	0	57	84	7/14/07	0	53	86	8/14/07	0	53	80
4/15/07	0	30	45	5/15/07	0.18	62	89	6/15/07	0	56	80	7/15/07	0.1	58	79	8/15/07	0	62	81
4/16/07	0	32	53	5/16/07	0.44	47	65	6/16/07	0	54	85	7/16/07	0	50	83	8/16/07	0.36	66	83
4/17/07	0	34	57	5/17/07	0	42	53	6/17/07	0	66	88	7/17/07	0.12	62	79	8/17/07	0	60	80
4/18/07	0	32	51	5/18/07	0	36	63	6/18/07	0	65	94	7/18/07	0.01	60	85	8/18/07	0	48	71
4/19/07	0	38	57	5/19/07	0	41	70	6/19/07	0.13	66	84	7/19/07	0.77	61	76	8/19/07	0.54	57	64
4/20/07	0.06	39	68	5/20/07	0	48	76	6/20/07	0.12	54	80	7/20/07	0.01	55	72	8/20/07	1.45	61	72
4/21/07	0	32	74	5/21/07	0	42	72	6/21/07	0	56	85	7/21/07	0	47	73	8/21/07	1.1	69	76
4/22/07	0	41	80	5/22/07	0	55	85	6/22/07	0	51	73	7/22/07	0	46	79	8/22/07	0.02	66	85
4/23/07	0	57	81	5/23/07	0	58	90	6/23/07	0	48	73	7/23/07	0	51	80	8/23/07	0	72	91
4/24/07	0	47	65	5/24/07	0	62	89	6/24/07	0	56	79	7/24/07	0.01	56	72	8/24/07	0	69	91
4/25/07	0.75	46	52	5/25/07	0.24	67	86	6/25/07	0	59	88	7/25/07	0.1	53	77	8/25/07	0.02	66	80
4/26/07	0.98	47	71	5/26/07	0.41	65	78	6/26/07	0	67	91	7/26/07	0.05	61	76	8/26/07	0.01	60	77
4/27/07	0.04	49	58	5/27/07	0.04	64	76	6/27/07	0.09	69	90	7/27/07	3.12	64	83	8/27/07	0	56	83
4/28/07	0.01	47	65	5/28/07	0	55	82	6/28/07	0.12	67	80	7/28/07	0	67	79	8/28/07	0	57	86
4/29/07	0	46	71	5/29/07	0	61	85	6/29/07	0.05	57	71	7/29/07	0.01	63	81	8/29/07	0	65	91
4/30/07	0.01	54	69	5/30/07	0	64	89	6/30/07	0	50	78	7/30/07	0	63	83	8/30/07	0	57	76
				5/31/07	0.11	62	89					7/31/07	0	57	87	8/31/07	0	51	75

The Ohio State University

APPLE - WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Location: Wooster,Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Trial Summary: Sandea 75DF, (not registered for apples) was tested for crop injury and weed control. There were 4 herbicide treatments: Sandea at 1, 2 and 4 oz/ A, and Sinbar at 0.5 lb/A. These herbicides were tank-mixed with Gramaxone at 1qt/A and applied twice during the growing season (early May and early July) as a directed spray to the ground under the trees. There was no visual injury to the apple trees with any of the treatments. The Sinbar treatment provided the best overall weed control, and Sandea at the 4 oz rate also did well except for black nightshade. There were no significant differences in yield among the treatments.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/02/07
Planned Completion Date: 11/30/07

Objective: To evaluate weed control and crop tolerance using Sandea.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	AGRASS	*annual grasses (various)*
2	CERVU	*mouseear chickweed*
3	CAPBP	*shepherd's purse*
4	CHEAL	*common lambsquarters*
5	OXAST	*yellow woodsorrel*
6	PLAMA	*broadleaf plantain*
7	POAAN	*annual bluegrass*
8	SENVU	*common groundsel*
9	SOLPT	*Eastern black nightshade*
10	TAROF	*dandelion*
11	TRFRE	*White clover*

Crop 1: MABSD APPLE
Planting Date: 05/15/02
Rate: 388 TREES/ACRE
Row Spacing: 2.5 X 4.5M

Variety: DESERT ROSE FUJI/B9
Planting Method: BARE ROOT TRANSPLANT
Depth: 18 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT
Site Type: LEVEL WELL DRAINED FIELD
Tillage Type: NONE

Plot Length, Unit: 8 FT
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11	% OM: 3.11	Texture: SILT LOAM
% Silt: 75	pH: 6.86	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 14	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/2/2007	7/6/2007
Time of Day:	10AM-12PM	3-4 PM
Application Method:	SPRAY	SPRAY
Application Timing:	POST A	POST B
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	57.8 F	82.9 F
% Relative Humidity:	70.2	44.9
Wind Velocity, Unit:	5.0 MPH	5.3 MPH
Soil Moisture:	MOIST	DRY
% Cloud Cover:	100	0

The Ohio State University

APPLE - WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007 | Study Dir.: Doug Doohan and T. Koch
Location: Wooster,Ohio | Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	MABSD, POST A	MABSD, POST B
Stage Scale:	25% BLOOM	POST BLOOM
Height, Unit:	7 FT	7 FT

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AGRASS, POST A	AGRASS, POST B
Stage Scale:	1-4 IN	5-12 IN
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 2 Code, Stage:	CERVU, POST A	CERVU, POST B
Stage Scale:	0.25 IN	.
Density, Unit:	LOW, PLOT	. .
Weed 3 Code, Stage:	CAPBP, POST A	CAPBP, POST B
Stage Scale:	2 IN	.
Density, Unit:	LOW, PLOT	. .
Weed 4 Code, Stage:	CHEAL, POST A	CHEAL, POST B
Stage Scale:	4-10 LF	5-12 IN
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 5 Code, Stage:	OXAST, POST A	OXAST, POST B
Stage Scale:	.	4-6 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 6 Code, Stage:	PLAMA, POST A	PLAMA, POST B
Stage Scale:	.	4 IN DIAMETER
Density, Unit:	. .	LOW, PLOT
Weed 7 Code, Stage:	POAAN, POST A	POAAN, POST B
Stage Scale:	1 IN	.
Density, Unit:	LOW, PLOT	. .
Weed 8 Code, Stage:	SENVU, POST A	SENVU, POST B
Stage Scale:	1 IN	6-8 IN
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 9 Code, Stage:	SOLPT, POST A	SOLPT, POST B
Stage Scale:	1 TRUE LF	18-24 IN
Density, Unit:	HIGH, PLOT	HIGH, PLOT
Weed10 Code, Stage:	TAROF, POST A	TAROF, POST B
Stage Scale:	2-4 IN DIAMETER	6-8 IN DIAMETER
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed11 Code, Stage:	TRFRE, POST A	TRFRE, POST B
Stage Scale:	TO 1 IN	8-12 IN
Density, Unit:	LOW, PLOT	LOW, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003EVS	8003EVS
Nozzles/Row:	1	1
Band Width, Unit:	24 IN	24 1N
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA

The Ohio State University

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Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Weed Code									
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				TRUNK	LIMB 1	LIMB 1	LIMB 2	LIMB 2	LIMB 3
Rating Data Type				CIRCUM	CIRCUM	BLOOM CL	CIRCUM	BLOOM CL	CIRCUM
Rating Unit				CM	CM	NO	CM	NO	CM
Rating Date				5/8/07	5/8/07	5/8/07	5/8/07	5/8/07	5/8/07
Trt-Eval Interval				6 DAT	6 DAT	6 DAT	6 DAT	6 DAT	6 DAT
Spray Timing				POST A	POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
UNTREATED CONTROL				16.4	9.1	16	9.3	9	8
SANDEA+	1	OZ/A	POST A	15.9	7.3	14	8.1	14	9.1
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	17.3	10	22	6.8	12	10.4
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	16.3	9.8	14	8.4	4	9.3
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	17.1	9.4	8	8.5	33	9.5
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				2.81	2.84	26.4	2.62	37.8	3.57
Standard Deviation				1.83	1.84	17.1	1.7	24.5	2.32
CV				11.02	20.23	116.57	20.73	172.88	25.06

The Ohio State University

APPLE - WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Weed Code						AGRASS	SOLPT	TRFRE	TAROF
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				LIMB 3	LEAF	WEED	WEED	WEED	WEED
Rating Data Type				BLOOM CL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				NO	%	%	%	%	%
Rating Date				5/8/07	6/5/07	6/5/07	6/5/07	6/5/07	6/5/07
Trt-Eval Interval				6 DAT	4WAT	4WAT	4WAT	4WAT	4WAT
Spray Timing				POST A	POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
UNTREATED CONTROL				9	0	0	0	0	0
SANDEA+	1	OZ/A	POST A	11	1	45	13	50	99
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	37	0	53	10	51	94
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	15	3	61	15	33	74
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	6	0	70	93	69	62
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				47.2	4	36.9	25.7	47.3	50.8
Standard Deviation				30.6	2.6	23.9	16.7	30.7	33
CV				199.6	344.27	52.34	63.97	75.79	50.02

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APPLE - WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Weed Code				SENVU	CHEAL	CERVU	POANN	CAPBP	
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED	WEED	LIMB 1
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	FRUIT
Rating Unit				%	%	%	%	%	NO
Rating Date				6/5/07	6/5/07	6/5/07	6/5/07	6/5/07	6/28/07
Trt-Eval Interval				4WAT	4WAT	4WAT	4WAT	4WAT	7WAT
Spray Timing				POST A	POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
UNTREATED CONTROL				0	0	0	0	0	3
SANDEA+	1	OZ/A	POST A	98	99	99	99	70	1
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	99	99	99	99	99	8
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	99	89	99	99	91	1
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	99	99	99	99	99	2
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				1.4	13.4	0	0	35.7	8.8
Standard Deviation				0.9	8.7	0	0	23.2	5.7
CV				1.13	11.29	0	0	32.35	201.33

The Ohio State University

APPLE - WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Weed Code							AGRASS	SOLPT	TRFRE
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				LIMB 2	LIMB 3	LEAF	WEED	WEED	WEED
Rating Data Type				FRUIT	FRUIT	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit				NO	NO	%	%	%	%
Rating Date				6/28/07	6/28/07	7/5/07	7/5/07	7/5/07	7/5/07
Trt-Eval Interval				7WAT	7WAT	8WAT	8WAT	8WAT	8WAT
Spray Timing				POST A	POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24
UNTREATED CONTROL				2	3	0	0	0	0
SANDEA+	1	OZ/A	POST A	1	2	0	36	0	64
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	3	9	0	56	0	46
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	1	3	0	54	0	46
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	5	2	0	43	68	80
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				7	13.6	0	42.7	32.3	38.6
Standard Deviation				4.5	8.8	0	27.7	21	25
CV				216.61	242.06	0	73.5	153.61	53.13

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APPLE - WEED CONTROL AND CROP TOLERANCE
WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Weed Code				TAROF	SENVU	CHEAL	CERVU	POANN	CAPBP
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07
Trt-Eval Interval				8WAT	8WAT	8WAT	8WAT	8WAT	8WAT
Spray Timing				POST A	POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28	29	30
UNTREATED CONTROL				0	0	0	0	0	0
SANDEA+	1	OZ/A	POST A	99	99	99	99	99	94
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	89	99	99	99	99	99
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	74	99	89	99	99	74
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	25	94	99	99	99	99
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				55.6	6.5	13.4	0	0	35.3
Standard Deviation				36.1	4.2	8.7	0	0	22.9
CV				62.79	5.43	11.29	0	0	31.22

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Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Weed Code					AGRASS	SOLPT	TRFRE	TAROF	SENVU
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				LEAF	WEED	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/7/07	8/7/07	8/7/07	8/7/07	8/7/07	8/7/07
Trt-Eval Interval				4WAT	4WAT	4WAT	4WAT	4WAT	4WAT
Spray Timing				POST B	POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35	36
UNTREATED CONTROL				0	0	0	0	0	0
SANDEA+	1	OZ/A	POST A	0	54	4	64	85	99
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	0	49	0	41	81	99
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	0	49	8	44	89	99
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	0	55	66	72	54	99
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				0	38	35.4	34.4	25.2	0
Standard Deviation				0	24.6	23	22.4	16.4	0
CV				0	59.72	149.39	50.58	26.57	0

The Ohio State University

APPLE - WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Weed Code				CHEAL	PLAMA	OXAST	CAPBP		AGRASS
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED	LEAF	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/7/07	8/7/07	8/7/07	8/7/07	9/2/07	9/2/07
Trt-Eval Interval				4WAT	4WAT	4WAT	4WAT	8WAT	8WAT
Spray Timing				POST B	POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	37	38	39	40	41	42
UNTREATED CONTROL				0	0	0	0	0	0
SANDEA+	1	OZ/A	POST A	99	99	99	99	0	99
NIS+	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	1	OZ/A	POST B						
NIS+	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	2	OZ/A	POST A	99	99	99	99	0	99
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	2	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SANDEA+	4	OZ/A	POST A	96	99	99	99	0	99
NIS	0.25	QT/A	POST A						
GRAMAXONE	2	PT/A	POST A						
SANDEA+	4	OZ/A	POST B						
NIS	0.25	QT/A	POST B						
GRAMAXONE	2	PT/A	POST B						
SINBAR+	0.5	LB/A	POST A	99	99	99	99	0	99
GRAMAXONE	2	PT/A	POST A						
SINBAR+	0.5	LB/A	POST B						
GRAMAXONE	2	PT/A	POST B						
LSD (P=.05)				4.8	0	0	0	0	0
Standard Deviation				3.1	0	0	0	0	0
CV				3.99	0	0	0	0	0

The Ohio State University

APPLE - WEED CONTROL AND CROP TOLERANCE
WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Weed Code				SOLPT	TRFRE	TAROF	SENVU	CHEAL
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/2/07	9/2/07	9/2/07	9/2/07	9/2/07
Trt-Eval Interval				8WAT	8WAT	8WAT	8WAT	8WAT
Spray Timing				POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	43	44	45	46	47
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	99	99	99	99	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	99	99	99	99	99
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	99	99	99	99	99
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	99	99	99	99	99
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				0	0	0	0	0
Standard Deviation				0	0	0	0	0
CV				0	0	0	0	0

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APPLE - WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Weed Code				PLAMA	OXAST	CAPBP		
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	LIMB 1	LIMB 1
Rating Data Type				CONTROL	CONTROL	CONTROL	YIELD	YIELD
Rating Unit				%	%	%	NO FRUIT	WT/LBS
Rating Date				9/2/07	9/2/07	9/2/07	10/5/07	10/5/07
Trt-Eval Interval				8WAT	8WAT	8WAT	HARVEST	HARVEST
Spray Timing				POST B	POST B	POST B		
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	48	49	50	51	52
UNTREATED CONTROL				0	0	0	2	0.7
SANDEA+	1	OZ/A	POST A	99	99	99	0	0.1
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	99	99	99	3	0.9
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	99	99	99	0	0.1
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	99	99	99	1	0.2
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				0	0	0	3.5	1.17
Standard Deviation				0	0	0	2.3	0.76
CV				0	0	0	175.97	194.34

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APPLE - WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	53	54	55	56	57
Weed Code								
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				LIMB 2	LIMB 2	LIMB 3	LIMB 3	REST
Rating Data Type				YIELD	YIELD	YIELD	YIELD	YIELD
Rating Unit				NO FRUIT	WT/LBS	NO FRUIT	WT/LBS	WT/LBS
Rating Date				10/5/07	10/5/07	10/5/07	10/5/07	10/5/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
UNTREATED CONTROL				1	0.2	2	0.8	4
SANDEA+	1	OZ/A	POST A	0	0	1	0.3	2.4
NIS+	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	0	0	5	1.6	4.3
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	0	0	1	0.2	1.2
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR+	0.5	LB/A	POST A	2	0	2	0.6	2.3
GRAMAXONE	2	PT/A	POST A					
SINBAR+	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				2.4	0.29	7.6	2.42	4.07
Standard Deviation				1.5	0.19	5	1.57	2.64
CV				308.22	447.21	225.22	228.47	93.03

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APPLE - WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON FUJI

Trial ID: APPSANDEAFJW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster,Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	58	59	60	61
Weed Code							
Crop Code				MABSD	MABSD	MABSD	MABSD
Part Rated				FRUIT	LIMB 1	LIMB2	LIMB3
Rating Data Type				TTL YLD	SHOOT GRO	SHOOT GRO	SHOOT GRO
Rating Unit				WT/LBS	CM	CM	CM
Rating Date				10/5/07	10/5/07	10/5/07	10/5/07
Trt-Eval Interval				HARVEST	POSTHARV	POSTHARV	POSTHARV
Spray Timing							
UNTREATED CONTROL				5.7	18	23	17.8
SANDEA+	1	OZ/A	POST A	2.8	17	22.8	22.2
NIS+	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	1	OZ/A	POST B				
NIS+	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SANDEA+	2	OZ/A	POST A	6.9	23.8	18.7	27.5
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	2	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SANDEA+	4	OZ/A	POST A	1.4	21.8	13.7	19.8
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	4	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SINBAR+	0.5	LB/A	POST A	3	22.3	16.3	19.5
GRAMAXONE	2	PT/A	POST A				
SINBAR+	0.5	LB/A	POST B				
GRAMAXONE	2	PT/A	POST B				
LSD (P=.05)				7.33	9.18	7.63	10.59
Standard Deviation				4.76	5.96	4.95	6.87
CV				120.19	29	26.19	32.21

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007 | Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

Trial Summary: Sandea 75DF, (not registered for apples) was tested for crop injury and weed control. There were 4 herbicide treatments: Sandea at 1, 2 and 4 oz/ A, and Sinbar at 0.5 lb/A. These herbicides were tank-mixed with Gramaxone at 1qt/A and applied twice during the growing season (early May and early July) as a directed spray to the ground under the trees. There was no visual injury to the apple trees with any of the treatments. The Sinbar treatment provided the best overall weed control, and Sandea at the 4 oz rate also did well except for black nightshade. There were no significant differences in yield among the treatments.

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.:Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 05/02/07
Country: USA | Planned Completion Date: 11/30/07

Objective: To evaluate weed control and crop tolerance using Sandea.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
	1 AGRASS	annual grasses (various)	*Panicum spp.and Digitaria spp.*
	2 CERVU	mouseear chickweed	*Cerastium vulgatum L.*
	3 CAPBP	shepherd's purse	*Capsella bursa-pastoris (L.) Medicus*
	4 OXAST	yellow woodsorrel	*Oxalis stricta L.*
	5 PLAMA	broadleaf plantain	*Plantago major L.*
	6 SOLPT	Eastern black nightshade	*Solanum ptycanthum*
	7 TAROF	dandelion	*Taraxacum officinale Weber*
	8 TRFRE	White clover	*Trifolium repens L.*

Crop 1: MABSD | APPLE | Variety: GOLDEN DELICIOUS/ B9
Planting Date: 05/15/02 | Planting Method: BARE ROOT TRANSPLANT
Rate: 388 TREES/ACRE | Depth: 18 IN
Row Spacing: 2.5 x4.5M | Seed Bed: CONVENTIONAL
Perennial Age: 5 YEARS

SITE AND DESIGN

Plot Width, Unit: 5 FT | Plot Length, Unit: 8 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: CONVENTIONAL | Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11 | % OM: 3.0 | Texture: SILT LOAM
% Silt: 75 | pH: 5.11 | Soil Name: WOOSTER SILT LOAM
% Clay: 14 | CEC: 12 | Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/2/2007	7/6/2007
Time of Day:	10AM-12PM	3-4 PM
Application Method:	SPRAY	SPRAY
Application Timing:	POST A	POST B
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	57.8 F	82.9 F
% Relative Humidity:	70.2	44.9
Wind Velocity, Unit:	5.0 MPH	5.3 MPH
Soil Moisture:	MOIST	DRY
% Cloud Cover:	100	0

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	MABSD POST A	MABSD POST B
Stage Scale:	70% BLOOM	POST BLOOM
Height, Unit:	7 FT	7 FT

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AGRASS, POST A	AGRASS, POST B
Stage Scale:	1-4 IN	12-18 IN
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 2 Code, Stage:	CERVU POST A	CERVU, POST B
Stage Scale:	6 LF	.
Density, Unit:	MEDIUM, PLOT	. .
Weed 3 Code, Stage:	CAPBP POST A	CAPBP, POST B
Stage Scale:	1 IN	.
Density, Unit:	LOW, PLOT	. .
Weed 4 Code, Stage:	OXAST, POST A	OXAST, POST B
Stage Scale:	.	3-6 IN
Density, Unit:	. .	LOW, PLOT
Weed 5 Code, Stage:	PLAMA, POST A	PLAMA, POST B
Stage Scale:	.	4 IN DIAMETER
Density, Unit:	. .	LOW, PLOT
Weed 6 Code, Stage:	SOLPT, POST A	SOLPT, POST B
Stage Scale:	.	12 -24 IN
Density, Unit:	. .	HIGH, PLOT
Weed 7 Code, Stage:	TAROF, POST A	TAROF, POST B
Stage Scale:	.	6 IN DIAMETER
Density, Unit:	. .	MEDIUM, PLOT
Weed 8 Code, Stage:	TRFRE, POST A	TRFRE POST B
Stage Scale:	0.5 IN	.
Density, Unit:	MEDIUM, PLOT	. .

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003EVS	8003EVS
Nozzles/Row:	1	1
Band Width, Unit:	24 1N	24 1N
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code								
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				TRUNK	LIMB 1	LIMB 1	LIMB 2	LIMB 2
Rating Data Type				DIAM	CIRCUM	BLOOM CL	CIRCUM	BLOOM CL
Rating Unit				CM	CM	NO	CM	NO
Rating Date				5/8/07	5/8/07	5/8/07	5/8/07	5/8/07
Trt-Eval Interval				6 DAT POST A	6 DAT POST A	6 DAT POST A	6 DAT POST A	6 DAT POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				20	9	28	9	50
SANDEA+	1	OZ/A	POST A	19.8	8.4	52	9.6	43
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	19.6	7.4	23	8.8	20
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	20.9	8.9	41	10.3	52
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR	0.5	LB/A	POST A	21.3	9.4	30	7.6	32
GRAMAXONE	2	PT/A	POST A					
SINBAR	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				2.94	4.33	34.6	2.03	38.9
Standard Deviation				1.91	2.78	22.2	1.32	25.3
CV				9.39	32.4	63.78	14.56	64.66

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							AGRASS	SOLPT
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				LIMB 3	LIMB 3	LEAF	WEED	WEED
Rating Data Type				CIRCUM	BLOOM CL	INJURY	CONTROL	CONTROL
Rating Unit				CM	NO	%	%	%
Rating Date				5/8/07	5/8/07	6/5/07	6/5/07	6/5/07
Trt-Eval Interval				6 DAT	6 DAT	4 WAT	4 WAT	4 WAT
				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				9.4	60	0	0	0
SANDEA+	1	OZ/A	POST A	10.2	65	0	31	11
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	9.5	40	0	55	15
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	9.6	51	1	65	33
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR	0.5	LB/A	POST A	9.1	32	1	81	98
GRAMAXONE	2	PT/A	POST A					
SINBAR	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				2.38	40.6	2.5	30.1	25.8
Standard Deviation				1.53	26.1	1.6	19.5	16.8
CV				15.98	52.74	329.14	42.02	53.48

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TRFRE	TAROF	CAPBP		
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	LIMB 1	LIMB 2
Rating Data Type				CONTROL	CONTROL	CONTROL	FRUIT	FRUIT
Rating Unit				%	%	%	NUMBER	NUMBER
Rating Date				6/5/07	6/5/07	6/5/07	6/28/07	6/28/07
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	7WAT	7 WAT
				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
UNTREATED CONTROL				0	0	0	26	33
SANDEA+	1	OZ/A	POST A	56	99	91	40	42
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	73	99	99	22	24
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	71	99	99	43	52
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR	0.5	LB/A	POST A	93	41	99	33	27
GRAMAXONE	2	PT/A	POST A					
SINBAR	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				49.6	22.6	9.6	33.4	43.2
Standard Deviation				32.2	14.6	6.2	21.5	28.1
CV				54.8	21.65	8.05	65.49	79.49

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						AGRASS	SOLPT	TRFRE
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				LIMB 3	LEAF	WEED	WEED	WEED
Rating Data Type				FRUIT	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit				NUMBER	%	%	%	%
Rating Date				6/28/07	7/5/07	7/5/07	7/5/07	7/5/07
Trt-Eval Interval				7 WAT	8 WAT	8 WAT	8 WAT	8 WAT
				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
UNTREATED CONTROL				48	0	0	0	0
SANDEA+	1	OZ/A	POST A	67	0	46	18	65
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	33	0	57	0	89
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	54	0	60	20	85
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR	0.5	LB/A	POST A	28	0	64	87	89
GRAMAXONE	2	PT/A	POST A					
SINBAR	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				34.6	0	30.6	15.5	26.4
Standard Deviation				22.3	0	19.9	10.1	17.1
CV				48.55	0	43.72	40.37	26.16

The Ohio State University

APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	CAPBP		AGRASS	SOLPT
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	LEAF	WEED	WEED
Rating Data Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/5/07	7/5/07	8/8/07	8/8/07	8/8/07
Trt-Eval Interval				8 WAT	8 WAT	4 WAT	4 WAT	4 WAT
				POST A	POST A	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	87	99	0	70	14
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	89	99	0	74	5
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	99	99	0	56	13
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR	0.5	LB/A	POST A	38	99	0	78	99
GRAMAXONE	2	PT/A	POST A					
SINBAR	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				31	0	0	18.2	12.1
Standard Deviation				20.1	0	0	11.8	7.9
CV				32.16	0	0	21.3	30.15

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TRFRE	TAROF	PLAMA		AGRASS
Crop Code				MABSD	MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	LEAF	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/8/07	8/8/07	8/8/07	9/8/07	9/8/07
Trt-Eval Interval				4 WAT POST B	4 WAT POST B	4 WAT POST B	8 WAT POST B	8 WAT POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	50	69	99	0	99
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	2	OZ/A	POST A	80	99	99	0	99
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SANDEA+	4	OZ/A	POST A	40	99	99	0	99
NIS	0.25	QT/A	POST A					
GRAMAXONE	2	PT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS	0.25	QT/A	POST B					
GRAMAXONE	2	PT/A	POST B					
SINBAR	0.5	LB/A	POST A	99	66	99	0	99
GRAMAXONE	2	PT/A	POST A					
SINBAR	0.5	LB/A	POST B					
GRAMAXONE	2	PT/A	POST B					
LSD (P=.05)				22	9.1	0	0	0
Standard Deviation				14.3	5.9	0	0	0
CV				26.58	8.86	0	0	0

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SOLPT	TRFRE	TAROF	PLAMA
Crop Code				MABSD	MABSD	MABSD	MABSD
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				9/8/07	9/8/07	9/8/07	9/8/07
Trt-Eval Interval				8 WAT POST B	8 WAT POST B	8 WAT POST B	8 WAT POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34
UNTREATED CONTROL				0	0	0	0
SANDEA+	1	OZ/A	POST A	99	99	99	99
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	1	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SANDEA+	2	OZ/A	POST A	99	99	99	99
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	2	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SANDEA+	4	OZ/A	POST A	99	99	99	99
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	4	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SINBAR	0.5	LB/A	POST A	99	99	99	99
GRAMAXONE	2	PT/A	POST A				
SINBAR	0.5	LB/A	POST B				
GRAMAXONE	2	PT/A	POST B				
LSD (P=.05)				0	0	0	0
Standard Deviation				0	0	0	0
CV				0	0	0	0

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							
Crop Code				MABSD	MABSD	MABSD	MABSD
Part Rated				LIMB 1	LIMB 1	LIMB 2	LIMB 2
Rating Data Type				YIELD	YIELD	YIELD	YIELD
Rating Unit				NO FRUIT	WT/LBS	NO FRUIT	WT/LBS
Rating Date				10/4/07	10/4/07	10/4/07	10/4/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	37	38
UNTREATED CONTROL				29	5.6	40	13.1
SANDEA+	1	OZ/A	POST A	16	3.9	21	6.8
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	1	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SANDEA+	2	OZ/A	POST A	6	1.4	8	2.3
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	2	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SANDEA+	4	OZ/A	POST A	25	8.5	27	8.8
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	4	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SINBAR	0.5	LB/A	POST A	19	6.1	20	6.3
GRAMAXONE	2	PT/A	POST A				
SINBAR	0.5	LB/A	POST B				
GRAMAXONE	2	PT/A	POST B				
LSD (P=.05)				23	7.64	33.7	10.81
Standard Deviation				14.8	4.96	21.9	7.01
CV				78.42	96.96	94.92	94.06

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							
Crop Code				MABSD	MABSD	MABSD	MABSD
Part Rated				LIMB 3	LIMB 3	REST	FRUIT
Rating Data Type				YIELD	YIELD	YIELD	TTL YLD
Rating Unit				NO FRUIT	WT/LBS	WT/LBS	WT/LBS
Rating Date				10/4/07	10/4/07	10/4/07	10/4/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	39	40	41	43
UNTREATED CONTROL				39	12	55.2	86.7
SANDEA+	1	OZ/A	POST A	38	10.7	47.4	74.1
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	1	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SANDEA+	2	OZ/A	POST A	35	10.3	43.2	64.0
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	2	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SANDEA+	4	OZ/A	POST A	41	12.2	40.4	75.7
NIS	0.25	QT/A	POST A				
GRAMAXONE	2	PT/A	POST A				
SANDEA+	4	OZ/A	POST B				
NIS	0.25	QT/A	POST B				
GRAMAXONE	2	PT/A	POST B				
SINBAR	0.5	LB/A	POST A	31	10.4	46.1	74.7
GRAMAXONE	2	PT/A	POST A				
SINBAR	0.5	LB/A	POST B				
GRAMAXONE	2	PT/A	POST B				
LSD (P=.05)				37.8	11.36	20.43	37.8
Standard Deviation				24.5	7.37	13.26	24.5
CV				66.87	66.29	28.54	32.7

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APPLE- WEED CONTROL AND CROP TOLERANCE WITH SANDEA ON GOLDEN DELICIOUS

Trial ID: APPSANDEAGDW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						
Crop Code						
Part Rated				LIMB 1	LIMB 2	LIMB 3
Rating Data Type				SHOOT GRO	SHOOT GRO	SHOOT GRO
Rating Unit				CM	CM	CM
Rating Date				11/6/07	11/6/07	11/6/07
Trt-Eval Interval				POSTHARV	POSTHARV	POSTHARV
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	44	45	46
UNTREATED CONTROL				20	30.8	24.9
SANDEA+	1	OZ/A	POST A	21.8	20.5	16.2
NIS	0.25	QT/A	POST A			
GRAMAXONE	2	PT/A	POST A			
SANDEA+	1	OZ/A	POST B			
NIS	0.25	QT/A	POST B			
GRAMAXONE	2	PT/A	POST B			
SANDEA+	2	OZ/A	POST A	21.9	20.5	21.9
NIS	0.25	QT/A	POST A			
GRAMAXONE	2	PT/A	POST A			
SANDEA+	2	OZ/A	POST B			
NIS	0.25	QT/A	POST B			
GRAMAXONE	2	PT/A	POST B			
SANDEA+	4	OZ/A	POST A	18.7	21.9	21
NIS	0.25	QT/A	POST A			
GRAMAXONE	2	PT/A	POST A			
SANDEA+	4	OZ/A	POST B			
NIS	0.25	QT/A	POST B			
GRAMAXONE	2	PT/A	POST B			
SINBAR	0.5	LB/A	POST A	17	22.3	23
GRAMAXONE	2	PT/A	POST A			
SINBAR	0.5	LB/A	POST B			
GRAMAXONE	2	PT/A	POST B			
LSD (P=.05)				8.17	7.74	11.48
Standard Deviation				5.3	5.02	7.45
CV				26.65	21.67	34.84

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CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007 Study Dir.: Doug Doohan and T.Koch

Location: Wooster, Ohio Investigator: Doug Doohan

Trial Summary: This trial evaluates 4 combinations of Oust XP 75DF and Velpar 75 WDG for crop injury and weed control in Colorado blue spruce. Also included in the trial was flumioxazin (51 WDG). Applications were a single directed spray to the ground in April while trees were dormant. The best overall treatment in this trial for good weed control and low crop injury was Oust @ 1.04 oz/A plus Velpar @ 11oz/A .

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 04/19/07
Planned Completion Date: 11/15/07

Objective: Evaluate Oust and Velpar combinations for weed control and crop injury on Christmas trees.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	AGRASS	*annual grasses (various)*
2	AMBEL	*common ragweed*
3	CARHI	*hairy bittercress*
4	DACGL	*orchardgrass*
5	DAUCA	*wild carrot*
6	RUBFR	*bramble*
7	SOOCA	*Canada goldenrod*
8	AGGRE	*quackgrass*
9	OXAST	*yellow woodsorrel*
10	TOXRA	*poison ivy*
11	CERVU	*mouseear chickweed*
12	ERIAN	*annual fleabane*

Crop 1: PICEA CHRISTMAS TREES Variety: COLORADO BLUE SPRUCE
Planting Date: 05/15/00 Planting Method: CONVENTIONAL
Rate: 1400 PER ACRE Depth: 8 IN
Plant Spacing: 6 FT X 5 FT Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 3 FT Plot Length, Unit: 25 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: NONE Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11 % OM: 3.11 Texture: CANFIELD
% Silt: 75 pH: 6.0 Soil Name: SILT LOAM
% Clay: 14 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	4/19/2007
Time of Day:	11AM-1PM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	DIRECTED
Air Temp., Unit:	54.1 F
% Relative Humidity:	53.4
Wind Velocity, Unit:	8.7 MPH
Soil Moisture:	MOIST
% Cloud Cover:	100

The Ohio State University

CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	PICEA, PRE
Stage Scale:	DORMANT
Height, Unit:	4 FT

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGRASS, PRE
Stage Scale:	1 IN
Density, Unit:	MEDIUM, PLOT
Weed 2 Code, Stage:	AMBEL, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	CARHI, PRE
Stage Scale:	2 IN
Density, Unit:	MEDIUM, PLOT
Weed 4 Code, Stage:	DACGL, PRE
Stage Scale:	6 IN
Density, Unit:	MEDIUM, PLOT
Weed 5 Code, Stage:	DAUCA, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	RUBFR, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	SOOCA, PRE
Stage Scale:	1 IN
Density, Unit:	MEDIUM, PLOT
Weed 8 Code, Stage:	AGGRE, PRE
Stage Scale:	5 IN
Density, Unit:	MEDIUM, PLOT
Weed 9 Code, Stage:	OXAST, PRE
Stage Scale:	.
Density, Unit:	. .
Weed10 Code, Stage:	TOXRA, PRE
Stage Scale:	.
Density, Unit:	. .
Weed11 Code, Stage:	CERVU, PRE
Stage Scale:	2 IN DIAMETER
Density, Unit:	MEDIUM, PLOT
Weed12 Code, Stage:	ERIAN, PRE
Stage Scale:	.
Density, Unit:	. .

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8003 EVS
Nozzles/Row:	1
Band Width, Unit:	22 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Spray Volume, Unit:	25 GPA
Propellant:	CO2

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CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code					AGRASS	ERIAN	RUBFR	CARHI
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/18/07	5/18/07	5/18/07	5/18/07	5/18/07
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
OUST XP+	0.52	OZ/A	PRE	0	99	99	80	99
VELPAR+	5.49	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.69	OZ/A	PRE	0	99	99	70	99
VELPAR+	7.32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.87	OZ/A	PRE	0	99	99	84	99
VELPAR+	9.15	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	1.04	OZ/A	PRE	0	99	99	85	99
VELPAR+	11	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
FLUMIOXAZIN+	8	OZ/A	PRE	0	0	0	4	99
NIS	0.25	QT/A	PRE					
LSD (P=.05)				0	0	0	19	0
Standard Deviation				0	0	0	12.6	0
CV				0	0	0	23.49	0

The Ohio State University

CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CERVU	AMBEL	SOOCA	DACGL	OXAST
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/18/07	5/18/07	5/18/07	5/18/07	5/18/07
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				0	0	0	0	0
OUST XP+	0.52	OZ/A	PRE	99	99	50	94	99
VELPAR+	5.49	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.69	OZ/A	PRE	99	99	93	97	99
VELPAR+	7.32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.87	OZ/A	PRE	99	99	72	97	99
VELPAR+	9.15	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	1.04	OZ/A	PRE	99	99	74	98	99
VELPAR+	11	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
FLUMIOXAZIN+	8	OZ/A	PRE	99	99	0	1	99
NIS	0.25	QT/A	PRE					
LSD (P=.05)				0	0	46.4	7.4	0
Standard Deviation				0	0	30.8	4.9	0
CV				0	0	63.89	7.62	0

The Ohio State University

CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				AGGRE	DAUCA		AGRASS	ERIAN
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/18/07	5/18/07	6/18/07	6/18/07	6/18/07
Trt-Eval Interval				30 DAT	30 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
UNTREATED CONTROL				0	0	0	0	0
OUST XP+	0.52	OZ/A	PRE	99	99	8	99	99
VELPAR+	5.49	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.69	OZ/A	PRE	99	99	10	99	99
VELPAR+	7.32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.87	OZ/A	PRE	99	99	6	99	99
VELPAR+	9.15	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	1.04	OZ/A	PRE	99	99	5	99	99
VELPAR+	11	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
FLUMIOXAZIN+	8	OZ/A	PRE	0	0	0	0	0
NIS	0.25	QT/A	PRE					
LSD (P=.05)				0	0	4.9	0	0
Standard Deviation				0	0	3.2	0	0
CV				0	0	67.58	0	0

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CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				RUBFR	CARHI	CERVU	AMBEL
Crop Code				PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				6/18/07	6/18/07	6/18/07	6/18/07
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19
UNTREATED CONTROL				0	0	0	0
OUST XP+	0.52	OZ/A	PRE	68	99	99	99
VELPAR+	5.49	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
OUST XP+	0.69	OZ/A	PRE	59	99	99	97
VELPAR+	7.32	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
OUST XP+	0.87	OZ/A	PRE	69	99	99	99
VELPAR+	9.15	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
OUST XP+	1.04	OZ/A	PRE	80	99	99	99
VELPAR+	11	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
FLUMIOXAZIN+	8	OZ/A	PRE	0	99	99	99
NIS	0.25	QT/A	PRE				
LSD (P=.05)				18.9	0	0	2.8
Standard Deviation				12.5	0	0	1.8
CV				27.33	0	0	2.24

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CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SOOCA	DACGL	OXAST	AGGRE	DAUCA
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/18/07	6/18/07	6/18/07	6/18/07	6/18/07
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	20	21	22	23	24
UNTREATED CONTROL				0	0	0	0	0
OUST XP+	0.52	OZ/A	PRE	50	94	99	98	92
VELPAR+	5.49	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.69	OZ/A	PRE	93	97	99	99	99
VELPAR+	7.32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.87	OZ/A	PRE	72	97	99	99	99
VELPAR+	9.15	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	1.04	OZ/A	PRE	74	98	99	99	97
VELPAR+	11	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
FLUMIOXAZIN+	8	OZ/A	PRE	0	0	50	0	0
NIS	0.25	QT/A	PRE					
LSD (P=.05)				46.4	7.4	35.2	1.2	9.5
Standard Deviation				30.8	4.9	23.3	0.8	6.3
CV				63.89	7.59	31.43	1.24	9.8

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CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code					AGRASS	ERIAN	RUBFR	CARHI
Crop Code				PICEA	PICEA	PICEA	PICEA	PICEA
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/18/07	7/18/07	7/18/07	7/18/07	7/18/07
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28	29
UNTREATED CONTROL				0	0	0	0	0
OUST XP+	0.52	OZ/A	PRE	11	86	99	55	99
VELPAR+	5.49	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.69	OZ/A	PRE	16	89	99	46	99
VELPAR+	7.32	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	0.87	OZ/A	PRE	13	91	99	51	99
VELPAR+	9.15	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
OUST XP+	1.04	OZ/A	PRE	10	90	99	74	99
VELPAR+	11	OZ/A	PRE					
NIS	0.25	QT/A	PRE					
FLUMIOXAZIN+	8	OZ/A	PRE	0	0	0	0	99
NIS	0.25	QT/A	PRE					
LSD (P=.05)				8.8	10.6	0	23.4	0
Standard Deviation				5.8	7	0	15.5	0
CV				70.14	11.89	0	41.2	0

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CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CERVU	AMBEL	SOOCA	DACGL
Crop Code				PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				7/18/07	7/18/07	7/18/07	7/18/07
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	30	31	32	33
UNTREATED CONTROL				0	0	0	0
OUST XP+	0.52	OZ/A	PRE	99	99	50	94
VELPAR+	5.49	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
OUST XP+	0.69	OZ/A	PRE	99	90	93	97
VELPAR+	7.32	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
OUST XP+	0.87	OZ/A	PRE	99	96	72	97
VELPAR+	9.15	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
OUST XP+	1.04	OZ/A	PRE	99	99	74	98
VELPAR+	11	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
FLUMIOXAZIN+	8	OZ/A	PRE	99	99	0	0
NIS	0.25	QT/A	PRE				
LSD (P=.05)				0	8.4	46.4	7.4
Standard Deviation				0	5.6	30.8	4.9
CV				0	6.95	63.89	7.59

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CHRISTMAS TREE - WEED CONTROL AND CROP TOLERANCE WITH VELPAR PLUS OUST TANK MIXES

Trial ID: XMASTREEW2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				OXAST	TOXRA	AGGRE	DAUCA
Crop Code				PICEA	PICEA	PICEA	PICEA
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				7/18/07	7/18/07	7/18/07	7/18/07
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	34	35	36	37
UNTREATED CONTROL				0	0	0	0
OUST XP+	0.52	OZ/A	PRE	99	50	97	90
VELPAR+	5.49	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
OUST XP+	0.69	OZ/A	PRE	99	65	99	99
VELPAR+	7.32	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
OUST XP+	0.87	OZ/A	PRE	99	35	99	98
VELPAR+	9.15	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
OUST XP+	1.04	OZ/A	PRE	99	28	99	97
VELPAR+	11	OZ/A	PRE				
NIS	0.25	QT/A	PRE				
FLUMIOXAZIN+	8	OZ/A	PRE	50	0	0	0
NIS	0.25	QT/A	PRE				
LSD (P=.05)				35.2	58.7	2.8	9.2
Standard Deviation				23.3	39	1.8	6.1
CV				31.43	132.54	2.8	9.57

The Ohio State University

CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW07
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Trial Summary: This was a herbicide screening trial (mainly unregistered materials) for vine crops evaluating crop injury and weed control. Of the six premergence (PRE) and 2 postemergence (POST) herbicides tested, Flexstar (PRE) is the only new treatment that appears to have real potential with cucumbers and pumpkins Canteloupe did not tolerate Flexstar. Flexstar caused injury early on but cucumbers and pumpkins outgrew it over time. The canteloupes never recovered from Flexstar injury. This herbicide provides good broadleaf weed contro with high yields. Though not labeled for vine crops, Flexstar appears to have potential

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/24/07
Planned Completion Date: 9/15/07

Objective: To evaluate PRE and POST herbicide combinations for weed control and crop injury

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	AGRASS	*foxtail, crabgrass spp.*
2	AMAXX	*pigweed spp.*
3	SOLPT	*Eastern black nightshade*
4	CYPES	*yellow nutsedge*
5	POLPY	*Pennsylvania smartweed*
6	POROL	*common purslane*

Crop 1: CUUHY
Planting Date: 05/23/07
Rate: 1 SEED/2.5 FT
Row Spacing: 9 FT
Soil Moisture: DRY

HYBRID MINI PUMPKIN
Variety: GOLD DUST
Planting Method: CONVENTIONAL
Depth: 0.75 IN
Seed Bed: CONVENTIONAL

Crop 2: CUMSA
Planting Date: 05/23/07
Rate: 1 SEED/1 FT
Row Spacing: 9 FT
Soil Moisture: DRY

HYBRID CUCUMBER
Variety: PANCHO VILLA
Planting Method: CONVENTIONAL
Depth: 0.75 IN
Seed Bed: CONVENTIONAL

Crop 3: CUMHY
Planting Date: 05/23/07
Rate: 1 SEED/2 FT
Row Spacing: 9 FT
Soil Moisture: DRY

HYBRID CANTELOUPE
Variety: SSX 1044
Planting Method: CONVENTIONAL
Depth: 0.75 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT
Site Type: LEVEL FIELD
Tillage Type: CONVENTIONAL

Plot Length, Unit: 25 FT
Reps: 4
Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 11
% Silt: 75
% Clay: 14

% OM: 3.11
pH: 6.86
CEC: 14

Texture: SILT LOAM
Soil Name: WOOSTER SILT LOAM
Fert. Level: MODERATE

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW07 | Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	5/24/2007	6/11/2007
Time of Day:	9-11 AM	10-11 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	77 F	74.3 F
% Relative Humidity:	59	45
Wind Velocity, Unit:	1.7 MPH	2.3 MPH
Soil Moisture:	DRY	MOIST
% Cloud Cover:	0	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CUUHY, PRE	CUUHY, POST
Stage Scale:	.	3 LF
Height, Unit:	0. .	6 IN
Crop 2 Code, Stage:	CUMSA, PRE	CUMSA, POST
Stage Scale:	.	3 LF
Height, Unit:	0. .	4 IN
Crop 3 Code, Stage:	CUMHY, PRE	CUMHY, POST
Stage Scale:	.	3 LF
Height, Unit:	0. .	4 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AGRASS, PRE	AGRASS, POST
Stage Scale:	.	3 LF
Density, Unit:	. .	MEDIUM, PLOT
Weed 2 Code, Stage:	AMAXX, PRE	AMAXX, POST
Stage Scale:	.	2 IN
Density, Unit:	. .	LOW, PLOT
Weed 3 Code, Stage:	SOLPT, PRE	SOLPT, POST
Stage Scale:	.	1 IN
Density, Unit:	. .	LOW, PLOT
Weed 4 Code, Stage:	CYPES, PRE	CYPES, POST
Stage Scale:	.	4 IN
Density, Unit:	. .	HIGH, PLOT
Weed 5 Code, Stage:	POLPY, PRE	POLPY, POST
Stage Scale:	.	2 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 6 Code, Stage:	POROL, PRE	POROL, POST
Stage Scale:	.	0.5 IN
Density, Unit:	. .	MEDIUM, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	4	4
Band Width, Unit:	6 FT	6 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.5 MPH
Propellant:	CO2	CO2

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code							SOLPT	AGRASS	AMAXX
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				PLANT	PLANT	LEAF	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CURL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/7/07	6/7/07	6/7/07	6/7/07	6/7/07	6/7/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
UNTREATED CONTROL CANTELOUPE				0	0	0	0	0	0
UNTREATED CONTROL PICKLE				0	0	0	0	0	0
UNTREATED CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	1	13	0	99	99	99
DUAL MAGNUM PICKLE	1	PT/A	PRE	0	11	0	99	99	99
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	0	5	0	99	99	99
CURBIT CANTELOUPE	2	PT/A	PRE	0	3	0	99	99	74
CURBIT PICKLE	2	PT/A	PRE	0	3	0	99	99	74
CURBIT PUMPKIN	2	PT/A	PRE	0	3	0	99	99	74
SANDEA CANTELOUPE	0.66	OZ/A	PRE	0	8	0	99	74	99
SANDEA PICKLE	0.66	OZ/A	PRE	0	1	0	99	74	99
SANDEA PUMPKIN	0.66	OZ/A	PRE	0	13	0	99	74	99
COMMAND CANTELOUPE	1.33	PT/A	PRE	3	3	0	99	99	25
COMMAND PICKLE	1.33	PT/A	PRE	0	0	0	99	99	25

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							SOLPT	AGRASS	AMAXX
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				PLANT	PLANT	LEAF	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CURL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/7/07	6/7/07	6/7/07	6/7/07	6/7/07	6/7/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
COMMAND PUMPKIN	1.33	PT/A	PRE	0	8	0	99	99	25
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	1	4	0	99	74	99
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE	0	4	0	99	74	99
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE	0	15	0	99	74	99
FLEXSTAR CANTELOUPE	24	OZ/A	PRE	24	53	0	99	50	99
FLEXSTAR PICKLE	24	OZ/A	PRE	0	30	0	99	50	99
FLEXSTAR PUMPKIN	24	OZ/A	PRE	0	19	0	99	50	99
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST						
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST						
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST						
DUAL MAGNUM CANTELOUPE	1	PT/A	POST						
DUAL MAGNUM PICKLE	1	PT/A	POST						
DUAL MAGNUM PUMPKIN	1	PT/A	POST						
LSD (P=.05)				7.5	14.3	0	0	41.3	32.6
Standard Deviation				5.3	10.1	0	0	29.2	23.1
CV				441.55	127.12	0	0	47.18	37.3

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	10	11	12	13
Weed Code				POROL	POLPY	CYPES			SOLPT
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/7/07	6/7/07	6/7/07	6/19/07	6/19/07	6/19/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	4 WAT	4 WAT	4 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
UNTREATED CONTROL CANTELOUPE				0	0	0	0	0	0
UNTREATED CONTROL PICKLE				0	0	0	0	0	0
UNTREATED CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	99	99	0	0	6	74
DUAL MAGNUM PICKLE	1	PT/A	PRE	99	99	0	0	19	74
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	99	99	0	0	3	74
CURBIT CANTELOUPE	2	PT/A	PRE	99	99	0	0	0	74
CURBIT PICKLE	2	PT/A	PRE	99	99	0	0	1	74
CURBIT PUMPKIN	2	PT/A	PRE	99	99	25	0	3	74
SANDEA CANTELOUPE	0.66	OZ/A	PRE	50	99	58	0	3	50
SANDEA PICKLE	0.66	OZ/A	PRE	50	99	40	0	1	50
SANDEA PUMPKIN	0.66	OZ/A	PRE	50	99	50	0	5	50
COMMAND CANTELOUPE	1.33	PT/A	PRE	99	99	0	0	1	74
COMMAND PICKLE	1.33	PT/A	PRE	99	99	0	0	4	74

The Ohio State University

CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POROL	POLPY	CYPES			SOLPT
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/7/07	6/7/07	6/7/07	6/19/07	6/19/07	6/19/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	4 WAT	4 WAT	4 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	10	11	12	13
COMMAND PUMPKIN	1.33	PT/A	PRE	99	99	0	0	1	74
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	99	99	0	0	5	74
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE	99	99	0	0	0	74
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE	99	99	0	0	5	74
FLEXSTAR CANTELOUPE	24	OZ/A	PRE	99	99	0	0	23	74
FLEXSTAR PICKLE	24	OZ/A	PRE	99	99	0	0	10	74
FLEXSTAR PUMPKIN	24	OZ/A	PRE	99	99	0	0	3	74
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST						
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST						
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST						
DUAL MAGNUM CANTELOUPE	1	PT/A	POST						
DUAL MAGNUM PICKLE	1	PT/A	POST						
DUAL MAGNUM PUMPKIN	1	PT/A	POST						
LSD (P=.05)				27.3	0	16.8	0	8.9	37.6
Standard Deviation				19.3	0	11.9	0	6.3	26.6
CV				28.37	0	165.35	0	166.15	50.51

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	14	15	16	17	19	20
Weed Code				AGRASS	AMAXX	POROL	POLPY	CYPES	
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%	%
Rating Date				6/19/07	6/19/07	6/19/07	6/19/07	6/19/07	7/12/07
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT	7 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
UNTREATED CONTROL CANTELOUPE				0	0	0	0	0	0
UNTREATED CONTROL PICKLE				0	0	0	0	0	0
UNTREATED CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	93	91	90	74	65	1
DUAL MAGNUM PICKLE	1	PT/A	PRE	89	90	86	62	61	0
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	89	93	88	74	51	0
CURBIT CANTELOUPE	2	PT/A	PRE	99	71	80	85	30	1
CURBIT PICKLE	2	PT/A	PRE	99	82	69	82	13	0
CURBIT PUMPKIN	2	PT/A	PRE	99	69	89	68	30	0
SANDEA CANTELOUPE	0.66	OZ/A	PRE	54	91	58	70	86	0
SANDEA PICKLE	0.66	OZ/A	PRE	72	90	53	48	85	0
SANDEA PUMPKIN	0.66	OZ/A	PRE	45	93	70	74	84	0
COMMAND CANTELOUPE	1.33	PT/A	PRE	99	38	70	99	21	0
COMMAND PICKLE	1.33	PT/A	PRE	99	56	70	99	37	0

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	14	15	16	17	19	20
Weed Code				AGRASS	AMAXX	POROL	POLPY	CYPES	
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%	%
Rating Date				6/19/07	6/19/07	6/19/07	6/19/07	6/19/07	7/12/07
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT	7 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
COMMAND PUMPKIN	1.33	PT/A	PRE	98	68	72	99	4	0
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	85	62	91	82	33	4
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE	88	50	77	65	35	0
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE	90	54	85	56	31	0
FLEXSTAR CANTELOUPE	24	OZ/A	PRE	65	74	99	99	49	4
FLEXSTAR PICKLE	24	OZ/A	PRE	67	74	99	94	51	0
FLEXSTAR PUMPKIN	24	OZ/A	PRE	49	74	99	91	59	0
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST						
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST						
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST						
DUAL MAGNUM CANTELOUPE	1	PT/A	POST						
DUAL MAGNUM PICKLE	1	PT/A	POST						
DUAL MAGNUM PUMPKIN	1	PT/A	POST						
LSD (P=.05)				25.4	34.1	29.2	41.4	34.9	2.2
Standard Deviation				18	24.1	20.7	29.3	24.7	1.5
CV				29.17	43.92	34.42	49.47	71.93	365.94

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25	26
Weed Code					SOLPT	AGRASS	AMAXX	POROL	POLPY
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/12/07	7/12/07	7/12/07	7/12/07	7/12/07	7/12/07
Trt-Eval Interval				7 WAT	7 WAT	7 WAT	7 WAT	7 WAT	7 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
UNTREATED CONTROL CANTELOUPE				0	0	0	0	0	0
UNTREATED CONTROL PICKLE				0	0	0	0	0	0
UNTREATED CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	5	74	68	55	66	74
DUAL MAGNUM PICKLE	1	PT/A	PRE	1	74	66	40	45	62
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	3	74	64	54	67	74
CURBIT CANTELOUPE	2	PT/A	PRE	0	74	74	38	56	51
CURBIT PICKLE	2	PT/A	PRE	0	99	99	55	41	74
CURBIT PUMPKIN	2	PT/A	PRE	0	74	99	61	87	64
SANDEA CANTELOUPE	0.66	OZ/A	PRE	1	50	43	71	13	57
SANDEA PICKLE	0.66	OZ/A	PRE	0	74	55	83	31	41
SANDEA PUMPKIN	0.66	OZ/A	PRE	0	74	55	89	59	92
COMMAND CANTELOUPE	1.33	PT/A	PRE	3	99	94	15	99	99
COMMAND PICKLE	1.33	PT/A	PRE	0	99	99	34	93	99

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code					SOLPT	AGRASS	AMAXX	POROL	POLPY
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/12/07	7/12/07	7/12/07	7/12/07	7/12/07	7/12/07
Trt-Eval Interval				7 WAT	7 WAT	7 WAT	7 WAT	7 WAT	7 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25	26
COMMAND PUMPKIN	1.33	PT/A	PRE	1	74	99	35	94	99
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	5	99	78	67	60	50
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE	0	99	84	64	53	36
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE	4	74	89	51	82	66
FLEXSTAR CANTELOUPE	24	OZ/A	PRE	15	99	47	98	93	99
FLEXSTAR PICKLE	24	OZ/A	PRE	5	99	41	83	81	91
FLEXSTAR PUMPKIN	24	OZ/A	PRE	1	99	54	99	93	99
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST						
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST						
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST						
DUAL MAGNUM CANTELOUPE	1	PT/A	POST						
DUAL MAGNUM PICKLE	1	PT/A	POST						
DUAL MAGNUM PUMPKIN	1	PT/A	POST						
LSD (P=.05)				5.5	41.2	38.7	37.6	31.8	43.9
Standard Deviation				3.9	29.1	27.4	26.6	22.5	31
CV				214.97	46.29	50.28	58.51	44.58	56.16

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31	32	33
Weed Code				CYPES			SOLPT	AGRASS	AMAXX
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/12/07	6/18/07	6/18/07	6/18/07	6/18/07	6/18/07
Trt-Eval Interval				7 WAT	1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				PRE	POST	POST	POST	POST	POST
UNTREATED CONTROL CANTELOUPE				0	0	0	0	0	0
UNTREATED CONTROL PICKLE				0	0	0	0	0	0
UNTREATED CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	50	0	0	0	0	0
DUAL MAGNUM PICKLE	1	PT/A	PRE	51	0	0	0	0	0
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	51	0	0	0	0	0
CURBIT CANTELOUPE	2	PT/A	PRE	25	0	0	0	0	0
CURBIT PICKLE	2	PT/A	PRE	25	0	0	0	0	0
CURBIT PUMPKIN	2	PT/A	PRE	31	0	0	0	0	0
SANDEA CANTELOUPE	0.66	OZ/A	PRE	56					
SANDEA PICKLE	0.66	OZ/A	PRE	76					
SANDEA PUMPKIN	0.66	OZ/A	PRE	85					
COMMAND CANTELOUPE	1.33	PT/A	PRE	15	0	0	0	0	0
COMMAND PICKLE	1.33	PT/A	PRE	18	0	0	0	0	0

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	CYPES CURCUR WEED CONTROL % 7/12/07 7 WAT PRE 28	CURCUR PLANT CHLOROSIS % 6/18/07 1 WAT POST 29	CURCUR PLANT STUNT % 6/18/07 1 WAT POST 30	SOLPT CURCUR WEED CONTROL % 6/18/07 1 WAT POST 31	AGRASS CURCUR WEED CONTROL % 6/18/07 1 WAT POST 32	AMAXX CURCUR WEED CONTROL % 6/18/07 1 WAT POST 33
COMMAND PUMPKIN	1.33	PT/A	PRE	13					
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	13	0	0	0	0	0
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE	18	0	0	0	0	0
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE	30					
FLEXSTAR CANTELOUPE	24	OZ/A	PRE	25					
FLEXSTAR PICKLE	24	OZ/A	PRE	23					
FLEXSTAR PUMPKIN	24	OZ/A	PRE	46					
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST		0	6	74	36	60
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST		3	10	25	29	59
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST		9	33	99	77	86
DUAL MAGNUM CANTELOUPE	1	PT/A	POST		0	14	99	66	21
DUAL MAGNUM PICKLE	1	PT/A	POST		9	6	99	87	28
DUAL MAGNUM PUMPKIN	1	PT/A	POST		0	3	99	65	38
LSD (P=.05)				32.1	4.8	8.3	28	34.6	28.1
Standard Deviation				22.7	3.4	5.8	19.6	24.2	19.6
CV				84.09	369.26	178.5	87.05	148.58	148.4

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	34	35	37	38	39	40
Weed Code				POROL	POLPY	CYPES			SOLPT
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/18/07	6/18/07	6/18/07	7/2/07	7/2/07	7/2/07
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
UNTREATED CONTROL CANTELOUPE				0	0	0	0	0	0
UNTREATED CONTROL PICKLE				0	0	0	0	0	0
UNTREATED CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	0	0	0	0	0	0
DUAL MAGNUM PICKLE	1	PT/A	PRE	0	0	0	0	0	0
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	0	0	0	0	0	0
CURBIT CANTELOUPE	2	PT/A	PRE	0	0	0	0	0	0
CURBIT PICKLE	2	PT/A	PRE	0	0	0	0	0	0
CURBIT PUMPKIN	2	PT/A	PRE	0	0	0	0	0	0
SANDEA CANTELOUPE	0.66	OZ/A	PRE						
SANDEA PICKLE	0.66	OZ/A	PRE						
SANDEA PUMPKIN	0.66	OZ/A	PRE						
COMMAND CANTELOUPE	1.33	PT/A	PRE	0	0	0	0	0	0
COMMAND PICKLE	1.33	PT/A	PRE	0	0	0	0	0	0

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	34	35	37	38	39	40
Weed Code				POROL	POLPY	CYPES			SOLPT
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/18/07	6/18/07	6/18/07	7/2/07	7/2/07	7/2/07
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
COMMAND PUMPKIN	1.33	PT/A	PRE						
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	0	0	0	0	0	0
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE	0	0	0	0	0	0
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE						
FLEXSTAR CANTELOUPE	24	OZ/A	PRE						
FLEXSTAR PICKLE	24	OZ/A	PRE						
FLEXSTAR PUMPKIN	24	OZ/A	PRE						
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST	33	66	60	5	8	65
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST	51	70	61	3	3	32
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST	65	99	76	0	14	82
DUAL MAGNUM CANTELOUPE	1	PT/A	POST	28	62	28	1	13	99
DUAL MAGNUM PICKLE	1	PT/A	POST	20	50	20	1	4	99
DUAL MAGNUM PUMPKIN	1	PT/A	POST	33	62	19	0	6	99
LSD (P=.05)				26.3	41	28.2	2.3	4.3	29.8
Standard Deviation				18.4	28.7	19.7	1.6	3	20.8
CV				176.93	154.7	164.74	360.36	141.6	96.41

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44	46	47
Weed Code				AGRASS	AMAXX	POROL	POLPY	CYPES	
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/24/07
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
UNTREATED CONTROL CANTELOUPE				0	0	0	0	0	0
UNTREATED CONTROL PICKLE				0	0	0	0	0	0
UNTREATED CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	0	0	0	0	0	0
DUAL MAGNUM PICKLE	1	PT/A	PRE	0	0	0	0	0	0
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	0	0	0	0	0	0
CURBIT CANTELOUPE	2	PT/A	PRE	0	0	0	0	0	0
CURBIT PICKLE	2	PT/A	PRE	0	0	0	0	0	0
CURBIT PUMPKIN	2	PT/A	PRE	0	0	0	0	0	0
SANDEA CANTELOUPE	0.66	OZ/A	PRE						
SANDEA PICKLE	0.66	OZ/A	PRE						
SANDEA PUMPKIN	0.66	OZ/A	PRE						
COMMAND CANTELOUPE	1.33	PT/A	PRE	0	0	0	0	0	0
COMMAND PICKLE	1.33	PT/A	PRE	0	0	0	0	0	0

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44	46	47
Weed Code				AGRASS	AMAXX	POROL	POLPY	CYPES	
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/24/07
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
COMMAND PUMPKIN	1.33	PT/A	PRE						
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	0	0	0	0	0	0
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE	0	0	0	0	0	0
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE						
FLEXSTAR CANTELOUPE	24	OZ/A	PRE						
FLEXSTAR PICKLE	24	OZ/A	PRE						
FLEXSTAR PUMPKIN	24	OZ/A	PRE						
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST	30	45	19	67	65	0
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST	21	36	28	43	70	4
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST	54	63	29	99	85	4
DUAL MAGNUM CANTELOUPE	1	PT/A	POST	57	0	26	39	0	7
DUAL MAGNUM PICKLE	1	PT/A	POST	67	31	14	40	0	8
DUAL MAGNUM PUMPKIN	1	PT/A	POST	60	29	23	49	0	0
LSD (P=.05)				34.3	26.7	24.3	34.7	25.6	6.7
Standard Deviation				24	18.7	17	24.3	17.9	4.7
CV				182.86	202.13	272.2	159.03	179.48	472.52

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SOLPT	AGRASS	AMAXX	POROL	POLPY	CIRAR
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	48	49	50	51	52	53
UNTREATED CONTROL CANTELOUPE				0	0	0	0	0	0
UNTREATED CONTROL PICKLE				0	0	0	0	0	0
UNTREATED CONTROL PUMPKIN				0	0	0	0	0	0
WEED FREE CONTROL CANTELOUPE				0	0	0	0	0	0
WEED FREE CONTROL PICKLE				0	0	0	0	0	0
WEED FREE CONTROL PUMPKIN				0	0	0	0	0	0
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	0	0	0	0	0	0
DUAL MAGNUM PICKLE	1	PT/A	PRE	0	0	0	0	0	0
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	0	0	0	0	0	0
CURBIT CANTELOUPE	2	PT/A	PRE	0	0	0	0	0	0
CURBIT PICKLE	2	PT/A	PRE	0	0	0	0	0	0
CURBIT PUMPKIN	2	PT/A	PRE	0	0	0	0		
SANDEA CANTELOUPE	0.66	OZ/A	PRE						
SANDEA PICKLE	0.66	OZ/A	PRE						
SANDEA PUMPKIN	0.66	OZ/A	PRE						
COMMAND CANTELOUPE	1.33	PT/A	PRE	0	0	0	0		
COMMAND PICKLE	1.33	PT/A	PRE	0	0	0	0		

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	48	49	50	51	52	53
Weed Code				SOLPT	AGRASS	AMAXX	POROL	POLPY	CIRAR
Crop Code				CURCUR	CURCUR	CURCUR	CURCUR	CURCUR	CURCUR
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
COMMAND PUMPKIN	1.33	PT/A	PRE						
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	0	0	0			
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE	0	0	0			
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE						
FLEXSTAR CANTELOUPE	24	OZ/A	PRE						
FLEXSTAR PICKLE	24	OZ/A	PRE						
FLEXSTAR PUMPKIN	24	OZ/A	PRE						
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST	60	25	36	5	37	50
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST	50	13	10	18	25	99
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST	99	36	16	20	89	99
DUAL MAGNUM CANTELOUPE	1	PT/A	POST	99	81	0	23	0	99
DUAL MAGNUM PICKLE	1	PT/A	POST	99	72	15	18	46	99
DUAL MAGNUM PUMPKIN	1	PT/A	POST	99	46	21	33	25	74
LSD (P=.05)				30.3	33.5	22.1	22.9	35.9	31.4
Standard Deviation				21	23.2	15.3	15.9	24.9	21.7
CV				91.28	187.61	340.88	273.76	190.12	71.04

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	54	69	70	71	72
Weed Code				CYPES				
Crop Code				CURCUR	CUMSA	CUMSA	CUMSA	CUMHY
Part Rated				WEED	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	MKTB NO	MKTB WT	MKTB WT	MKTB NO
Rating Unit				%	PER PLOT	LBS/PLOT	TONS/A	PER PLOT
Rating Date				7/24/07	7/20/07	7/20/07	7/20/07	8/15/07
Trt-Eval Interval				6 WAT	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing				POST				
UNTREATED CONTROL CANTELOUPE				0				0
UNTREATED CONTROL PICKLE				0	20	2.9	0.5	
UNTREATED CONTROL PUMPKIN				0				
WEED FREE CONTROL CANTELOUPE				0				3
WEED FREE CONTROL PICKLE				0	42	5.3	0.9	
WEED FREE CONTROL PUMPKIN				0				
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	0				1
DUAL MAGNUM PICKLE	1	PT/A	PRE	0	27	3.4	0.6	
DUAL MAGNUM PUMPKIN	1	PT/A	PRE	0				
CURBIT CANTELOUPE	2	PT/A	PRE	0				2
CURBIT PICKLE	2	PT/A	PRE	0	35	5	0.9	
CURBIT PUMPKIN	2	PT/A	PRE					
SANDEA CANTELOUPE	0.66	OZ/A	PRE					2
SANDEA PICKLE	0.66	OZ/A	PRE		41	5.7	1	
SANDEA PUMPKIN	0.66	OZ/A	PRE					
COMMAND CANTELOUPE	1.33	PT/A	PRE					1
COMMAND PICKLE	1.33	PT/A	PRE		32	4.5	0.8	

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	54	69	70	71	72
Weed Code				CYPES				
Crop Code				CURCUR	CUMSA	CUMSA	CUMSA	CUMHY
Part Rated				WEED	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	MKTB NO	MKTB WT	MKTB WT	MKTB NO
Rating Unit				%	PER PLOT	LBS/PLOT	TONS/A	PER PLOT
Rating Date				7/24/07	7/20/07	7/20/07	7/20/07	8/15/07
Trt-Eval Interval				6 WAT	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing				POST				
COMMAND PUMPKIN	1.33	PT/A	PRE					
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE					1
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE		27	3.8	0.7	
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE					
FLEXSTAR CANTELOUPE	24	OZ/A	PRE					1
FLEXSTAR PICKLE	24	OZ/A	PRE		33	5	0.9	
FLEXSTAR PUMPKIN	24	OZ/A	PRE					
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST	99				1
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST	99	25	3.1	0.5	
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST	99				
DUAL MAGNUM CANTELOUPE	1	PT/A	POST	28				0
DUAL MAGNUM PICKLE	1	PT/A	POST	36	20	2.9	0.5	
DUAL MAGNUM PUMPKIN	1	PT/A	POST	23				
LSD (P=.05)				13.2	12.61	1.89	0.33	1.7
Standard Deviation				9.2	8.69	1.3	0.23	1.2
CV				40.62	28.76	31.31	31.31	106.52

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	73	74	79	80	83
Weed Code								
Crop Code				CUMHY	CUMHY	CUUHY	CUUHY	CUUHY
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				MKTB WT	MKTB WT	MKTB NO	MKTB WT	MKTB WT
Rating Unit				LBS/PLOT	TONS/A	PER PLOT	LBS/PLOT	TONS/A
Rating Date				8/15/07	8/15/07	8/16/07	8/16/07	8/16/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
UNTREATED CONTROL CANTELOUPE				0	0			
UNTREATED CONTROL PICKLE								
UNTREATED CONTROL PUMPKIN						32	22.4	3.2
WEED FREE CONTROL CANTELOUPE				11.1	1.9			
WEED FREE CONTROL PICKLE								
WEED FREE CONTROL PUMPKIN						46	33.4	4.9
DUAL MAGNUM CANTELOUPE	1	PT/A	PRE	3	0.5			
DUAL MAGNUM PICKLE	1	PT/A	PRE					
DUAL MAGNUM PUMPKIN	1	PT/A	PRE			48	33.3	4.8
CURBIT CANTELOUPE	2	PT/A	PRE	7.2	1.3			
CURBIT PICKLE	2	PT/A	PRE					
CURBIT PUMPKIN	2	PT/A	PRE			43	30.3	4.4
SANDEA CANTELOUPE	0.66	OZ/A	PRE	7.3	1.3			
SANDEA PICKLE	0.66	OZ/A	PRE					
SANDEA PUMPKIN	0.66	OZ/A	PRE			41	25.6	3.7
COMMAND CANTELOUPE	1.33	PT/A	PRE	5.1	0.9			
COMMAND PICKLE	1.33	PT/A	PRE					

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CURCURBIT - WEED CONTROL AND CROP TOLERANCE

Trial ID: CURWCCTDSW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	73	74	79	80	83
Weed Code								
Crop Code				CUMHY	CUMHY	CUUHY	CUUHY	CUUHY
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				MKTB WT	MKTB WT	MKTB NO	MKTB WT	MKTB WT
Rating Unit				LBS/PLOT	TONS/A	PER PLOT	LBS/PLOT	TONS/A
Rating Date				8/15/07	8/15/07	8/16/07	8/16/07	8/16/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
COMMAND PUMPKIN	1.33	PT/A	PRE			39	27.2	3.9
MATRIX+ NIS CANTELOUPE	1.6 0.5	OZ/A PT/A	PRE PRE	5.7	1			
MATRIX+ NIS PICKLE	1.6 0.5	OZ/A PT/A	PRE PRE					
MATRIX+ NIS PUMPKIN	1.6 0.5	OZ/A PT/A	PRE PRE			46	30.2	4.4
FLEXSTAR CANTELOUPE	24	OZ/A	PRE	3.9	0.7			
FLEXSTAR PICKLE	24	OZ/A	PRE					
FLEXSTAR PUMPKIN	24	OZ/A	PRE			58	36.9	5.4
SANDEA NIS CANTELOUPE	0.66 0.5	OZ/A PT/A	POST POST	4	0.7			
SANDEA NIS PICKLE	0.66 0.5	OZ/A PT/A	POST POST					
SANDEA NIS PUMPKIN	0.66 0.5	OZ/A PT/A	POST POST			43	30	4.4
DUAL MAGNUM CANTELOUPE	1	PT/A	POST	0	0			
DUAL MAGNUM PICKLE	1	PT/A	POST					
DUAL MAGNUM PUMPKIN	1	PT/A	POST			47	33.1	4.8
LSD (P=.05)				7.67	1.34	19.6	12.98	1.88
Standard Deviation				5.28	0.92	13.5	8.94	1.3
CV				111.78	111.78	30.59	29.57	29.57

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GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDW07 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Trial Summary: Sandea 75DF, (not registered for grapes) was tested for crop injury and weed control. Sandea was applied twice during the growing season, (tank-mixed with Gramaxone at 1qt/A) as a directed spray to the ground under the grapevines at 3 rates: (1, 2, and 4 oz/A) in May and in July. There was no visual injury to the grapes The best overall weed control was with the 4 oz/A rate. There were no significant difference in yield among the treatments.

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 05/02/07
Country: USA Planned Completion Date: 11/30/07

Objective: To evaluate weed control and crop tolerance with Sandea.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
	1 AGRASS	*annual grasses (various)*
	2 CHEAL	*common lambsquarter*
	3 PLAMA	*broadleaf plantain*
	4 POAAN	*annual bluegrass*
	5 SOLPT	*eastern black nightshade*
	6 TAROF	*dandelion*
	7 PLALA	*buckhorn plantain*
	8 CERVU	*mouseear chickweed*

Crop 1: VITLA GRAPE Variety: CONCORD
Planting Date: 05/15/81 Planting Method: CONVENTIONAL
Rate: 544 VINES/ACRE Depth: 6 IN Perennial Age: 25 YEARS
Row Spacing: 10 FT Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT Plot Length, Unit: 8 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: NONE Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11 % OM: 3.11 Texture: SILT LOAM
% Silt: 75 pH: 6.86 Soil Name: WOOSTER SILT LOAM
% Clay: 14 CEC: 14 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/2/2007	7/6/2007
Time of Day:	10AM-12PM	3-4 PM
Application Method:	SPRAY	SPRAY
Application Timing:	POST A	POST B
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	57.8 F	82.9 F
% Relative Humidity:	70.2	44.9
Wind Velocity, Unit:	5.0 MPH	5.3 MPH
Soil Moisture:	MOIST	DRY
% Cloud Cover:	100	0

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDW07 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	VITLA, POST A	VITLA, POST B
Stage Scale:	BUD SWELL	POST BLOOM
Height, Unit:	6 FT	6 FT

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AGRASS, POST A	AGRASS, POST B
Stage Scale:	2-4 IN	12-24 IN
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 2 Code, Stage:	CHEAL, POST A	CHEAL, POST B
Stage Scale:	0.5 IN	3-6 IN
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 3 Code, Stage:	PLAMA, POST A	PLAMA, POST B
Stage Scale:	0.5 IN	6-8 IN DIAMETER
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 4 Code, Stage:	POAAN, POST A	POAAN, POST B
Stage Scale:	6 IN DIAMETER	10 IN DIAMETER
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 5 Code, Stage:	SOLPT, POST A	SOLPT, POST B
Stage Scale:	2-4 IN	10-18 IN
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 6 Code, Stage:	TAROF, POST A	TAROF, POST B
Stage Scale:	6-8 IN DIAMETER	12 IN DIAMETER
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 7 Code, Stage:	PLALA, POST A	PLALA, POST B
Stage Scale:	1-5 IN DIAMETER	6-8 IN DIAMETER
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 8 Code, Stage:	CERVU, POST A	CERVU POST B
Stage Scale:	2-4 IN DIAMETER	.
Density, Unit:	LOW, PLOT	. .

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003EVS	8003EVS
Nozzles/Row:	1	1
Band Width, Unit:	24 IN	24 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2 MPH	2 MPH
Spray Volume, Unit:	25 GPA	25 GPA

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						AGRASS	POANN	SOLPT
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				PLANT	LEAF	WEED	WEED	WEED
Rating Data Type				PRUN WT	PHYTO	CONTROL	CONTROL	CONTROL
Rating Unit				LBS	%	%	%	%
Rating Date				2/15/06	6/5/07	6/5/07	6/5/07	6/5/07
Trt-Eval Interval				PRUNING	4 WAT	4 WAT	4 WAT	4 WAT
Spray Timing					POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				7	0	0	0	25
SANDEA+	1	OZ/A	POST A	6.8	0	55	46	72
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	2.7	1	55	61	93
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	6.1	3	65	76	96
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	10.5	0	56	76	98
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				4.73	3.4	26.4	22.5	44.1
Standard Deviation				2.9	2.2	17.2	14.6	28.6
CV				43.74	298.14	37.11	28.05	37.27

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TRFRE	TAROF	CHEAL	CERVU	PLAMA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/5/07	6/5/07	6/5/07	6/5/07	6/5/07
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT
Spray Timing				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				25	0	0	0	0
SANDEA+	1	OZ/A	POST A	74	56	98	74	41
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	93	92	96	99	50
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	97	99	99	99	71
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	80	28	97	99	74
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				45.4	36.8	4.6	34.1	46.9
Standard Deviation				29.5	23.9	3	22.1	30.4
CV				40.01	43.5	3.87	29.81	64.67

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				PLALA			AGRASS	POANN
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	TRUNK	LEAF	WEED	WEED
Rating Data Type				CONTROL	CIRCUM	PHYTO	CONTROL	CONTROL
Rating Unit				%	CM	%	%	%
Rating Date				6/5/07	6/28/07	7/5/07	7/5/07	7/5/07
Trt-Eval Interval				4 WAT	6WAT	8WAT	8WAT	8WAT
Spray Timing				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	18	19	20	21
UNTREATED CONTROL				0	19.3	0	0	0
SANDEA+	1	OZ/A	POST A	94	18.9	0	38	77
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	74	23.5	0	18	82
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	98	14.5	0	30	87
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	50	19.8	1	38	99
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				56	9.84	1.7	44.1	28.4
Standard Deviation				36.3	6.39	1.1	28.7	18.4
CV				57.5	33.32	447.21	116.94	26.72

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SOLPT	TRFRE	TAROF	CHEAL	CERVU
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/5/07	7/5/07	7/5/07	7/5/07	7/5/07
Trt-Eval Interval				8WAT	8WAT	8WAT	8WAT	8WAT
Spray Timing				POST A	POST A	POST A	POST A	POST A
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	75	74	65	74	74
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	68	74	89	84	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	70	60	99	98	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	74	65	74	99	99
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				50	56.4	50.3	35.3	34.1
Standard Deviation				32.5	36.6	32.6	22.9	22.1
CV				56.74	67.13	49.92	32.2	29.81

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				PLAMA	PLALA		AGRASS	POANN
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				LEAF	WEED	LEAF	WEED	WEED
Rating Data Type				PHYTO	CONTROL	PHYTO	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/5/07	7/5/07	8/6/07	8/6/07	8/6/07
Trt-Eval Interval				8WAT	8WAT	4WAT	4WAT	4WAT
Spray Timing				POST A	POST A	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	42	99	0	30	89
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	36	74	0	34	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	37	71	0	33	81
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	30	62	0	60	99
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				67.1	63.5	0	34.7	16
Standard Deviation				43.5	41.2	0	22.5	10.4
CV				149.63	67.38	0	72.03	14.07

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SOLPT	TRFRE	TAROF	CHEAL	CERVU
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/6/07	8/6/07	8/6/07	8/6/07	8/6/07
Trt-Eval Interval				4WAT	4WAT	4WAT	4WAT	4WAT
Spray Timing				POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	32	33	34	35	36
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	63	52	67	99	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	54	61	82	99	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	65	80	99	99	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	99	48	77	99	99
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				48.3	44.4	36.6	0	0
Standard Deviation				31.3	28.8	23.8	0	0
CV				55.83	59.88	36.59	0	0

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				PLAMA	PLALA		AGRASS	POANN
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	LEAF	WEED	WEED
Rating Data Type				CONTROL	CONTROL	PHYTO	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				8/6/07	8/6/07	9/6/07	9/6/07	9/6/07
Trt-Eval Interval				4WAT	4WAT	8WAT	8WAT	8WAT
Spray Timing				POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	37	38	39	40	41
UNTREATED CONTROL				0	0	0	0	0
SANDEA+	1	OZ/A	POST A	59	88	0	50	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	25	89	0	70	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	53	60	0	91	99
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	51	74	0	50	99
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				29.2	42.6	0	46.4	0
Standard Deviation				19	27.7	0	30.1	0
CV				50.58	44.49	0	58.09	0

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GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SOLPT	TRFRE	TAROF	CHEAL	CERVU
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/6/07	9/6/07	9/6/07	9/6/07	9/6/07
Trt-Eval Interval				8WAT	8WAT	8WAT	8WAT	8WAT
Spray Timing				POST B	POST B	POST B	POST B	POST B
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	42	43	44	45	46
UNTREATED CONTROL				0	0	3	0	0
SANDEA+	1	OZ/A	POST A	0	84	57	74	74
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	1	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	2	OZ/A	POST A	0	99	70	99	84
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	2	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
SANDEA+	4	OZ/A	POST A	0	99	99	98	98
NIS+	0.25	QT/A	POST A					
GRAMAXONE	1	QT/A	POST A					
SANDEA+	4	OZ/A	POST B					
NIS+	0.25	QT/A	POST B					
GRAMAXONE	1	QT/A	POST B					
GRAMAXONE	1	QT/A	POST A	0	99	56	99	99
GRAMAXONE	1	QT/A	POST B					
LSD (P=.05)				0	20.3	60.6	34.3	35.3
Standard Deviation				0	13.2	32.2	22.2	22.9
CV				0	17.3	56.47	30.02	32.2

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GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				PLAMA	PLALA		
Crop Code				VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	FRUIT	FRUIT
Rating Data Type				CONTROL	CONTROL	100 BERRY WT	CLUST NO
Rating Unit				%	%	GRAMS	PER VINE
Rating Date				9/6/07	9/6/07	9/20/07	9/20/07
Trt-Eval Interval				8WAT	8WAT	HARVEST	HARVEST
Spray Timing				POST B	POST B		
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	47	48	49	50
UNTREATED CONTROL				0	0	345	106
SANDEA+	1	OZ/A	POST A	0	74	387.4	121
NIS+	0.25	QT/A	POST A				
GRAMAXONE	1	QT/A	POST A				
SANDEA+	1	OZ/A	POST B				
NIS+	0.25	QT/A	POST B				
GRAMAXONE	1	QT/A	POST B				
SANDEA+	2	OZ/A	POST A	29	84	354.9	65
NIS+	0.25	QT/A	POST A				
GRAMAXONE	1	QT/A	POST A				
SANDEA+	2	OZ/A	POST B				
NIS+	0.25	QT/A	POST B				
GRAMAXONE	1	QT/A	POST B				
SANDEA+	4	OZ/A	POST A	60	98	368.7	105
NIS+	0.25	QT/A	POST A				
GRAMAXONE	1	QT/A	POST A				
SANDEA+	4	OZ/A	POST B				
NIS+	0.25	QT/A	POST B				
GRAMAXONE	1	QT/A	POST B				
GRAMAXONE	1	QT/A	POST A	0	99	353	59
GRAMAXONE	1	QT/A	POST B				
LSD (P=.05)				9.9	35.3	45.16	51.3
Standard Deviation				6.4	22.9	29.31	27.3
CV				36.18	32.2	8.1	29.93

The Ohio State University

GRAPE - WEED CONTROL AND CROP TOLERANCE IN CONCORDS WITH SANDEA

Trial ID: GRAPSANDEAW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						
Crop Code				VITLA	VITLA	VITLA
Part Rated				FRUIT	FRUIT	FRUIT
Rating Data Type				CLUST WT	SOLUBLE SUGAR	TOTAL ACID
Rating Unit				LBS	%	%
Rating Date				9/20/07	9/20/07	9/20/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST
Spray Timing						
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	51	52	53
UNTREATED CONTROL				30.5	16.4	0.9
SANDEA+	1	OZ/A	POST A	40.4	16.5	0.88
NIS+	0.25	QT/A	POST A			
GRAMAXONE	1	QT/A	POST A			
SANDEA+	1	OZ/A	POST B			
NIS+	0.25	QT/A	POST B			
GRAMAXONE	1	QT/A	POST B			
SANDEA+	2	OZ/A	POST A	23.5	17.1	0.88
NIS+	0.25	QT/A	POST A			
GRAMAXONE	1	QT/A	POST A			
SANDEA+	2	OZ/A	POST B			
NIS+	0.25	QT/A	POST B			
GRAMAXONE	1	QT/A	POST B			
SANDEA+	4	OZ/A	POST A	33.7	16.9	0.81
NIS+	0.25	QT/A	POST A			
GRAMAXONE	1	QT/A	POST A			
SANDEA+	4	OZ/A	POST B			
NIS+	0.25	QT/A	POST B			
GRAMAXONE	1	QT/A	POST B			
GRAMAXONE	1	QT/A	POST A	17.3	17.1	0.93
GRAMAXONE	1	QT/A	POST B			
LSD (P=.05)				17.96	1.37	0.106
Standard Deviation				9.54	0.89	0.069
CV				32.8	5.31	7.8

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW07 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Trial Summary: This trial involves Matrix 25DF (registered 2007), for preemergence (PRE) and postemergence (POST) weed control in grapes. There were 9 herbicide treatments, (all tank mixed with Roundup at 1 qt/A) applied once in the spring while the grapes were dormant. Matrix was applied at 2 rates, (4 and 8 oz), alone and with other herbicides such as Karmex, Chateau, and Princep. There was also a split application (PRE+ POST) of Matrix with both rates. Matrix (4oz/A) plus Princep (3.6 qts/A) provided the best overall weed control after 90 days. The Matrix split-application, (PRE plus POST), had good weed control except for carpetweed, lambsquarters, anc purslane. There was no injury to the grape plants with any treatment.

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 04/03/07
Country: USA Planned Completion Date: 11/15/07

Objective: Evaluate rimsulfuron combinations for weed control and crop tolerance on grapes.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	CERVU	*mouseear chickweed*
2	ERIAN	*annual fleabane*
3	POROL	*common purslane*
4	POAAN	*annual bluegrass*
5	MOLVE	*carpetweed*
6	TAROF	*dandelion*
7	TRFRE	*white clover*
8	EPHMA	*spotted spurge*
9	DIGSA	*large crabgrass*
10	OXAST	*yellow woodsorrel*
11	STEME	*common chickweed*
12	POATR	*roughstalk bluegrass*
13	ERACN	*stinkgrass*
14	SETFA	*giant foxtail*
15	LAMPU	*purple deadnettle*
16	CARHI	*hairy bittercress*

Crop 1: VITLA FRENCH HYBRID GRAPE
Planting Date: 05/05/05 Planting Method: CONVENTIONAL
Rate: 544 VINES /A Depth:10 IN
Row Spacing: 8 FT X 10 FT Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 4 FT Plot Length, Unit: 20 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: NONE Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 16	% OM:.11	Texture: SILT LOAM
% Silt: 72	pH: 6.50	Soil Name: WOOSTER SILT LOAM
% Clay: 12	CEC: 14	Fert. Level: MODERATE

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW07 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	4/3/2007	7/18/2007
Time of Day:	10-12 AM	9-10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	DORMANT	MIDSUMMER
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	67.6 F	70.3 F
% Relative Humidity:	43.9	87.2
Wind Velocity, Unit:	7.2 MPH	5.3 MPH
Dew Presence (Y/N):	N	N
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	0	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	VITLA DORMANT	VITLA MIDSUMMER
Stage Scale:	NONE	POST BLOOM
Height, Unit:	3 FT	3 FT

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	CERVU, DORMANT	CERVU, MIDSUMMER
Stage Scale:	2 IN DIAMETER	.
Density, Unit:	MEDIUM, PLOT	. .
Weed 2 Code, Stage:	ERIAN, DORMANT	ERIAN, MIDSUMMER
Stage Scale:	3 IN DIAMETER	.
Density, Unit:	LOW, PLOT	. .
Weed 3 Code, Stage:	POROL, DORMANT	POROL, MIDSUMMER
Stage Scale:	.	12 IN DIAMETER
Density, Unit:	. .	MEDIUM, PLOT
Weed 4 Code, Stage:	POAAN, DORMANT	POAAN, MIDSUMMER
Stage Scale:	4 IN DIAMETER	.
Density, Unit:	MEDIUM, PLOT	. .
Weed 5 Code, Stage:	MOLVE, DORMANT	MOLVE, MIDSUMMER
Stage Scale:	8 LF	12 IN DIAMETER
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 6 Code, Stage:	TAROF, DORMANT	TAROF, MIDSUMMER
Stage Scale:	4 IN DIAMETER	6 IN DIAMETER
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 7 Code, Stage:	TRFRE, DORMANT	TRFRE, MIDSUMMER
Stage Scale:	3 IN DIAMETER	2 IN DIAMETER
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 8 Code, Stage:	EPHMA, DORMANT	EPHMA, MIDSUMMER
Stage Scale:	BLOOM	1-3 IN
Density, Unit:	HIGH, PLOT	HIGH, PLOT
Weed 9 Code, Stage:	DIGSA, DORMANT	DIGSA, MIDSUMMER
Stage Scale:	BLOOM	3 IN
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed10 Code, Stage:	OXAST, DORMANT	OXAST, MIDSUMMER
Stage Scale:	2 IN DIAMETER	.
Density, Unit:	LOW, PLOT	. .
Weed11 Code, Stage:	STEME, DORMANT	STEME, MIDSUMMER
Stage Scale:	2 IN DIAMETER	.
Density, Unit:	MEDIUM, PLOT	. .
Weed12 Code, Stage:	POATR, DORMANT	POATR, MIDSUMMER
Stage Scale:	4 IN	.
Density, Unit:	MEDIUM, PLOT	. .
Weed13 Code, Stage:	ERACN, DORMANT	ERACN, MIDSUMMER
Stage Scale:	2 IN	.
Density, Unit:	LOW, PLOT	. .

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW07 Study Dir.: Doug Doohan and T. Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Weed14 Code, Stage:	SETFA, DORMANT	SETFA, MIDSUMMER
Stage Scale:	.	8 IN
Density, Unit:	. .	MEDIUM, PLOT
Weed15 Code, Stage:	LAMPU, DORMANT	LAMPU, MIDSUMMER
Stage Scale:	BLOOM	.
Density, Unit:	MEDIUM, PLOT	. .
Weed16 Code, Stage:	CARHI, DORMANT	CARHI, MIDSUMMER
Stage Scale:	BLOOM	.
Density, Unit:	MEDIUM, PLOT	. .

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003 EVS	8003 EVS
Nozzles/Row:	1	1
Band Width, Unit:	24 IN	24 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code					POANN	POATR	MOLVE	STEME	CERVU
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/3/07	5/3/07	5/3/07	5/3/07	5/3/07	5/3/07
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Spray Timing				DORM	DORM	DORM	DORM	DORM	DORM
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT	0	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT	0	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	0	99	99	99	99	99
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	0	99	99	99	99	99
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	0	99	99	99	99	99
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT	0	99	99	99	99	99
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT	0	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	0	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	0	99	99	99	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				0	0	0	0	0	0
Standard Deviation				0	0	0	0	0	0
CV				0	0	0	0	0	0

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
Weed Code				LAMPU	TAROF	CARHI		POANN	POATR
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/3/07	5/3/07	5/3/07	6/3/07	6/3/07	6/3/07
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				DORM	DORM	DORM	DORM	DORM	DORM
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT	99	75	99	0	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT	99	85	99	0	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	85	99	0	99	99
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	95	99	0	99	99
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	85	99	0	99	99
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT	99	40	99	0	99	99
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT	99	75	99	0	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	75	99	0	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	99	99	99	0	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				0	18	0	0	0	0
Standard Deviation				0	12.4	0	0	0	0
CV				0	17.37	0	0	0	0

The Ohio State University

GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
Weed Code				MOLVE	STEME	CERVU	LAMPU	DIGSA	AMBEL
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/3/07	6/3/07	6/3/07	6/3/07	6/3/07	6/3/07
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				DORM	DORM	DORM	DORM	DORM	DORM
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	85	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT	99	99	99	99	97	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	93	99
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	99	99
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	96	99
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT	25	99	99	74	25	0
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT	99	99	99	74	71	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	99	99	85	93
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	99	99	99	96	96	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				22.7	0	0	30.6	35.1	5.5
Standard Deviation				15.7	0	0	21.1	24.2	3.8
CV				19.17	0	0	25.19	32.47	4.83

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24
Weed Code				TAROF	SETFA	CARHI	OXAST		ERIAN
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	LEAF	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	PHYTO	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/3/07	6/3/07	6/3/07	6/3/07	7/10/07	7/10/07
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	90 DAT	90 DAT
Spray Timing				DORM	DORM	DORM	DORM	DORM	DORM
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT	79	85	99	99	0	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT	86	95	97	97	0	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	60	93	99	99	0	74
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	77	99	99	99	0	99
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	69	96	99	99	0	99
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT	0	0	0	0	0	0
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT	58	71	99	99	0	74
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	69	85	99	99	0	74
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	83	96	99	99	0	50
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				21.8	25.8	2.1	2.1	0	47.7
Standard Deviation				15	17.8	1.4	1.4	0	32.9
CV				25.91	24.8	1.8	1.8	0	49.18

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28	29	30
Weed Code				MOLVE	TRFRE	DIGSA	TAROF	SETFA	CHEAL
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/10/07	7/10/07	7/10/07	7/10/07	7/10/07	7/10/07
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				DORM	DORM	DORM	DORM	DORM	DORM
UNTREATED CONTROL				0	0	0	0	0	0
MATRIX+	4	OZ/A	DORMANT	0	74	0	76	41	62
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT	0	99	19	60	71	97
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	50	74	21	3	65	92
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	97	92	68	86	98
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	76	28	34	99
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT	0	0	0	0	0	0
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT	99	74	43	10	25	88
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	50	99	39	71	57	67
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	50	99	37	56	85	50
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				47.1	38.9	45.2	18.2	46.2	40.3
Standard Deviation				32.4	26.8	31.2	12.6	31.8	27.7
CV				72.83	37.43	95.4	33.87	68.69	42.52

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35	36
Weed Code				AMAXX	POROL	AMBEL	EPHMA	ERACN	
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	LEAF
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	PHYTO
Rating Unit				%	%	%	%	%	%
Rating Date				7/10/07	7/10/07	7/10/07	7/10/07	7/10/07	8/18/07
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT	30 DAT
Spray Timing				DORM	DORM	DORM	DORM	DORM	MIDSUM
UNTREATED CONTROL				0	0	0	0	0	
MATRIX+	4	OZ/A	DORMANT	99	13	74	50	74	
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT	99	69	74	74	99	
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	41	99	96	98	
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	74	97	99	99	99	
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	96	99	99	99	
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT	0	0	0	0	0	
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT	99	99	99	99	99	
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	74	99	99	6
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	99	96	50	99	71	8
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				22.7	32	49.3	33.3	32.2	24.8
Standard Deviation				15.7	22.1	33.9	23	22.2	8.2
CV				20.4	36.31	50.8	32.16	30.04	115.27

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	37	38	39	40	41	42
Weed Code				ERIAN	MOLVE	TRFRE	DIGSA	TAROF	SETFA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/18/07	8/18/07	8/18/07	8/18/07	8/18/07	8/18/07
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Spray Timing				MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM
UNTREATED CONTROL									
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	99	99	96	79	91
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	99	99	99	98	74	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				0	0	0	6.3	18.6	44.4
Standard Deviation				0	0	0	2.1	6.1	14.6
CV				0	0	0	2.13	8.03	15.37

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	43	44	45	46	47	48
Weed Code				CHEAL	AMAXX	POROL	AMBEL	EPHMA	ERACN
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/18/07	8/18/07	8/18/07	8/18/07	8/18/07	8/18/07
Trt-Eval Interval				30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT
Spray Timing				MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM
UNTREATED CONTROL									
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	81	99	76	68	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	79	99	79	85	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				78.6	0	97.5	83.9	0	0
Standard Deviation				25.8	0	32	27.6	0	0
CV				32.32	0	41.34	36.1	0	0

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GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Weed Code					ERIAN	MOLVE	TRFRE	DIGSA	TAROF
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				LEAF	WEED	WEED	WEED	WEED	WEED
Rating Data Type				PHYTO	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				9/18/07	9/18/07	9/18/07	9/18/07	9/18/07	9/18/07
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	49	50	51	52	53	54
UNTREATED CONTROL									
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	0	99	34	99	99	69
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	0	98	45	99	99	75
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				0	5	144.5	0	0	12.4
Standard Deviation				0	1.6	47.5	0	0	4.1
CV				0	1.66	119.94	0	0	5.66

The Ohio State University

GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	55	56	57	58	59	60
Weed Code				SETFA	CHEAL	AMAXX	POROL	AMBEL	EPHMA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				9/18/07	9/18/07	9/18/07	9/18/07	9/18/07	9/18/07
Trt-Eval Interval				60 DAT	60 DAT	60 DAT	60 DAT	60 DAT	60 DAT
Spray Timing				MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM
UNTREATED CONTROL									
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	95	0	50	50	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	95	0	75	25	99	99
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				20.4	0	130	130.4	0	0
Standard Deviation				6.7	0	42.7	42.9	0	0
CV				7.1	0	68.91	115.47	0	0

The Ohio State University

GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	61	62	63	64	65	66
Weed Code				ERACN		ASTER	MOLVE	TRFRE	DIGSA
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	LEAF	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				9/18/07	10/18/07	10/18/07	10/18/07	10/18/07	10/18/07
Trt-Eval Interval				60 DAT	90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM
UNTREATED CONTROL									
MATRIX+	4	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	48	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
PRINCEP +	3.6	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT						
KARMEX+	32	OZ/A	DORMANT						
PRINCEP +	1.8	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
PAYLOAD+	7.84	OZ/A	DORMANT						
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	DORMANT	99	0	99	0	94	96
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	4	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
MATRIX+	8	OZ/A	DORMANT	99	0	99	0	99	91
ROUNDUP+	32	OZ/A	DORMANT						
NIS	0.25	QT/A	DORMANT						
MATRIX+	8	OZ/A	MIDSUMMR						
ROUNDUP+	32	OZ/A	MIDSUMMR						
NIS	0.25	QT/A	MIDSUMMR						
LSD (P=.05)				0	0	0	0	24.6	17.4
Standard Deviation				0	0	0	0	8.1	5.7
CV				0	0	0	0	8.37	6.13

The Ohio State University

GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Weed Code				TAROF	SETFA	CHEAL	AMAXX	POROL
Crop Code				VITLA	VITLA	VITLA	VITLA	VITLA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				10/18/07	10/18/07	10/18/07	10/18/07	10/18/07
Trt-Eval Interval				90 DAT	90 DAT	90 DAT	90 DAT	90 DAT
Spray Timing				MIDSUM	MIDSUM	MIDSUM	MIDSUM	MIDSUM
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	67	68	69	70	71
UNTREATED CONTROL								
MATRIX+	4	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT					
KARMEX+	48	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT					
PRINCEP +	3.6	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT					
KARMEX+	32	OZ/A	DORMANT					
PRINCEP +	1.8	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
PAYLOAD+	7.84	OZ/A	DORMANT					
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	DORMANT	76	66	0	99	0
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	4	OZ/A	MIDSUMMR					
ROUNDUP+	32	OZ/A	MIDSUMMR					
NIS	0.25	QT/A	MIDSUMMR					
MATRIX+	8	OZ/A	DORMANT	73	63	0	99	0
ROUNDUP+	32	OZ/A	DORMANT					
NIS	0.25	QT/A	DORMANT					
MATRIX+	8	OZ/A	MIDSUMMR					
ROUNDUP+	32	OZ/A	MIDSUMMR					
NIS	0.25	QT/A	MIDSUMMR					
LSD (P=.05)				32.9	12.4	0	0	0
Standard Deviation				10.8	4.1	0	0	0
CV				14.48	6.32	0	0	0

The Ohio State University

GRAPES - WEED CONTROL AND CROP TOLERANCE WITH RIMSULFURON

Trial ID: GRAPRIMTRW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Dr. Douglas J. Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	AMBEL VITLA WEED CONTROL % 10/18/07 90 DAT MIDSUM 72	EPHMA VITLA WEED CONTROL % 10/18/07 90 DAT MIDSUM 73	ERACN VITLA WEED CONTROL % 10/18/07 90 DAT MIDSUM 74
UNTREATED CONTROL						
MATRIX+	4	OZ/A	DORMANT			
ROUNDUP+	32	OZ/A	DORMANT			
NIS	0.25	QT/A	DORMANT			
MATRIX+	8	OZ/A	DORMANT			
ROUNDUP+	32	OZ/A	DORMANT			
NIS	0.25	QT/A	DORMANT			
MATRIX+	4	OZ/A	DORMANT			
KARMEX+	48	OZ/A	DORMANT			
ROUNDUP+	32	OZ/A	DORMANT			
NIS	0.25	QT/A	DORMANT			
MATRIX+	4	OZ/A	DORMANT			
PRINCEP +	3.6	QT/A	DORMANT			
ROUNDUP+	32	OZ/A	DORMANT			
NIS	0.25	QT/A	DORMANT			
MATRIX+	4	OZ/A	DORMANT			
KARMEX+	32	OZ/A	DORMANT			
PRINCEP +	1.8	QT/A	DORMANT			
ROUNDUP+	32	OZ/A	DORMANT			
NIS	0.25	QT/A	DORMANT			
ROUNDUP+	32	OZ/A	DORMANT			
NIS	0.25	QT/A	DORMANT			
PAYLOAD+	7.84	OZ/A	DORMANT			
ROUNDUP+	32	OZ/A	DORMANT			
NIS	0.25	QT/A	DORMANT			
MATRIX+	4	OZ/A	DORMANT	99	99	99
ROUNDUP+	32	OZ/A	DORMANT			
NIS	0.25	QT/A	DORMANT			
MATRIX+	4	OZ/A	MIDSUMMR			
ROUNDUP+	32	OZ/A	MIDSUMMR			
NIS	0.25	QT/A	MIDSUMMR			
MATRIX+	8	OZ/A	DORMANT	99	99	99
ROUNDUP+	32	OZ/A	DORMANT			
NIS	0.25	QT/A	DORMANT			
MATRIX+	8	OZ/A	MIDSUMMR			
ROUNDUP+	32	OZ/A	MIDSUMMR			
NIS	0.25	QT/A	MIDSUMMR			
LSD (P=.05)				0	0	0
Standard Deviation				0	0	0
CV				0	0	0

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GREEN ASH - HARDWOOD BRUSH CONTROL

Trial ID: HARDBRUSHW2007 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Trial Summary: This trial evaluates 6 rates of KJM 44 (80WG) (not labeled) for hardwood brush control, along with one rate each of Arsenal (28.7 EC), Escort XP (60 WG) and Krenite S. These herbicides were sprayed broadcast on green ash seedlings in June. Preliminary defoliation ratings were taken. This trial is ongoing, and will continue to be evaluated.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Interim
Trial Reliability: Reliable
Initiation Date: 06/26/07
Planned Completion Date: 11/15/07

Crop: HARDWOOD BRUSH
Planting Method: NATURAL SEEDING
Perennial Age: 3-5 YRS

Variety: GREEN ASH

SITE AND DESIGN

Plot Width, Unit: 10 FT
Site Type: LEVEL FIELD
Tillage Type: NONE

Plot Length, Unit: 10 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11	% OM: 3.0	Texture: SILT LOAM
% Silt: 75	pH: 6.0	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 12	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	6/26/2007
Time of Day:	10-11 AM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROADCAST
Air Temp., Unit:	82.6 F
% Relative Humidity:	64.8
Wind Velocity, Unit:	1 MPH
Soil Moisture:	DRY
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Timing:	POST
Stage Scale:	VEGETATIVE
Height, Unit:	3 FT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8003EVS
Nozzle Spacing, Unit:	1
Band Width, Unit:	24 IN
Spray Volume, Unit:	25 GPA
Propellant:	CO2

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GREEN ASH - HARDWOOD BRUSH CONTROL

Trial ID: GAHARDBRUSHW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval Spray Timing				GRN ASH LEAF INJURY % 7/26/07 30 DAT POST	GRN ASH LEAF CHLOROSIS % 7/26/07 30 DAT POST	GRN ASH LEAF INJURY % 9/26/07 90 DAT POST	GRN ASH LEAF CHLOROSIS % 9/26/07 90 DAT POST	GRN ASH LEAF LEAF FALL % 9/26/07 90 DAT POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL	0				0	0	0	53
KJM 44+ MSO	70 2	G A/HA PT/A	POST POST	81	0	100	0	99
KJM 44+ MSO	140 2	G A/HA PT/A	POST POST	88	0	100	0	98
KJM 44+ MSO	210 2	G A/HA PT/A	POST POST	69	8	100	0	96
KJM 44+ MSO	245 2	G A/HA PT/A	POST POST	80	25	100	0	96
KJM 44+ MSO	280 2	G A/HA PT/A	POST POST	85	28	100	0	79
KJM 44+ MSO	350 2	G A/HA PT/A	POST POST	60	16	100	0	66
ARSENAL+ MSO	840 2	G A/HA PT/A	POST POST	50	4	100	0	83
ESCORT+ MSO	84 2	G A/HA PT/A	POST POST	99	0	100	0	64
KRENITE S+ MSO	6700 2	G A/HA PT/A	POST POST	16	4	100	0	99
LSD (P=.05)				24.6	22.6	0	0	18.5
Standard Deviation				17	15.5	0	0	12.7
CV				27.06	185.61	0	0	15.31

The Ohio State University

GREEN ONION - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER

Trial ID: GRONWCGOALT 2007
Location: Willard, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Trial Summary: This trial evaluated 4 rates of Goaltender 4L, (1, 2, 3, and 6 oz/A) on two varieties of green onions, (Ishikura and White Spear) for crop injury and weed control. All rates of Goaltender were safe on green onions. The stunting observed in the controls at 6 WAT was caused by weed competition. Yield was significantly increased in Ishikura with the 2 and 3 oz rate of Goaltender, and with the 2 oz rate in White Spear.

TRIAL LOCATION

City: Willard
State/Prov.: Ohio
Postal Code: 44890
Planned Completion Date: 11/15/07

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 08/02/07

Objective: To assess Goaltender on green onions for weed control and crop injury.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	POROL	common purslane	*Portulaca oleracea L.*
2	AMAXX	pigweed species	*Amaranth spp.*

Crop 1: ALLCE GREEN ONION
Planting Date: 08/02/07
Rate: 11 SEEDS/FT
Row Spacing: 2 IN

Variety: ISHIKURA, WHITE SPEAR
Planting Method: CONVENTIONAL
Depth: 0.5 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT
Site Type: LEVEL FIELD
Tillage Type: CONVENTIONAL

Plot Length, Unit: 25 FT
Reps: 4
Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 64
% Silt: 31
% Clay: 5

% OM: 70
pH: 5.5
Fert. Level: HIGH

Texture: MUCK
Soil Name: LINWOOD MUCK

APPLICATION DESCRIPTION

	A	B
Application Date:	8/2/2007	8/27/2007
Time of Day:	3 PM	1-2 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	84.5 F	76 F
% Relative Humidity:	57.8	57
Wind Velocity, Unit:	3.6 MPH	2 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	50	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ALLCE, PRE	ALLCE, POST
Stage Scale:	.	2 LF
Height, Unit:	0. .	4 IN

The Ohio State University

GREEN ONION - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER

Trial ID: GRONWCGOALT 2007
Location: Willard, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	POROL, PRE	POROL, POST
Stage Scale:	.	5-40 LF
Density, Unit:	. .	MEDIUM, PLOT
Weed 2 Code, Stage:	AMAXX, PRE	AMAXX, POST
Stage Scale:	.	6-12 LF
Density, Unit:	. .	LOW, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	BACKPACK
Operating Pressure:	95	35
Nozzle Type:	FAN JET	FLAT FAN
Nozzle Size:	8002	8002VS
Nozzle Spacing, Unit:	18 IN	15 IN
Nozzles/Row:	10	4
Band Width, Unit:	15 FT	60 IN
Boom Height, Unit:	18 IN	15 IN
Ground Speed, Unit:	2 MPH	2.5 MPH
Spray Volume, Unit:	52.2 GPA	25 GPA

The Ohio State University

GREEN ONION - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER

Trial ID: GRONWCGOALT 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Willard, Ohio

Weed Code							AMAXX	POROL
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				CHLOROSIS	BURN	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/4/07	9/4/07	9/4/07	9/4/07	9/4/07
Trt-Eval Interval				1WAT	1WAT	1WAT	1WAT	1WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CONTROL ISHIKURA				0	0	0	0	0
CONTROL WHITE SPEAR				0	0	0	0	0
GOALTENDER ISHIKURA	1	OZ/A	POST 2LF	0	0	0	47	51
GOALTENDER WHITE SPEAR	1	OZ/A	POST 2LF	0	0	0	50	40
GOALTENDER ISHIKURA	2	OZ/A	POST 2LF	0	0	0	70	88
GOALTENDER WHITE SPEAR	2	OZ/A	POST 2LF	0	0	0	73	90
GOALTENDER ISHIKURA	3	OZ/A	POST 2LF	0	0	0	53	94
GOALTENDER WHITE SPEAR	3	OZ/A	POST 2LF	0	0	0	92	89
GOALTENDER ISHIKURA	6	OZ/A	POST 2LF	0	0	0	99	95
GOALTENDER WHITE SPEAR	6	OZ/A	POST 2LF	0	0	0	99	99
LSD (P=.05)				0	0	0	39.6	26.3
Standard Deviation				0	0	0	27.3	18.2
CV				0	0	0	46.9	28.18

The Ohio State University

GREEN ONION WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER

Trial ID: GRONWCGOALT 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Willard, Ohio

Weed Code							AMAXX	POROL
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				PLANT	PLANT	PLANT	WEED	WEED
Rating Data Type				CHLOROSIS	BURN	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				9/17/07	9/17/07	9/17/07	9/17/07	9/17/07
Trt-Eval Interval				3WAT	3WAT	3WAT	3WAT	3WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
CONTROL ISHIKURA				0	0	0	0	0
CONTROL WHITE SPEAR				0	0	0	0	0
GOALTENDER ISHIKURA	1	OZ/A	POST 2LF	0	0	0	51	54
GOALTENDER WHITE SPEAR	1	OZ/A	POST 2LF	0	0	0	33	55
GOALTENDER ISHIKURA	2	OZ/A	POST 2LF	0	0	0	68	88
GOALTENDER WHITE SPEAR	2	OZ/A	POST 2LF	0	0	0	81	85
GOALTENDER ISHIKURA	3	OZ/A	POST 2LF	0	0	0	80	93
GOALTENDER WHITE SPEAR	3	OZ/A	POST 2LF	0	0	0	91	89
GOALTENDER ISHIKURA	6	OZ/A	POST 2LF	0	0	0	99	94
GOALTENDER WHITE SPEAR	6	OZ/A	POST 2LF	0	0	0	98	98
LSD (P=.05)				0	0	0	32.9	23.5
Standard Deviation				0	0	0	22.7	16.2
CV				0	0	0	37.87	24.79

The Ohio State University

GREEN ONION - WEED CONTROL AND CROP TOLERANCE WITH GOALTENDER

Trial ID: GRONWCGOALT 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Willard, Ohio

Weed Code					AMAXX	POROL		
Crop Code				ALLCE	ALLCE	ALLCE	ALLCE	ALLCE
Part Rated				PLANT	WEED	WEED	PLANT	PLANT
Rating Data Type				STUNT	CONTROL	CONTROL	NO/PLOT	WT/PLOT
Rating Unit				%	%	%	EACH	LBS
Rating Date				10/8/07	10/8/07	10/8/07	10/8/07	10/8/07
Trt-Eval Interval				6WAT	6WAT	6WAT	HARVEST	HARVEST
Spray Timing				POST	POST	POST		
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
CONTROL ISHIKURA				15	0	0	99	1.9
CONTROL WHITE SPEAR				13	0	0	78	1.6
GOALTENDER ISHIKURA	1	OZ/A	POST 2LF	0	35	40	89	2.4
GOALTENDER WHITE SPEAR	1	OZ/A	POST 2LF	0	14	23	59	1.3
GOALTENDER ISHIKURA	2	OZ/A	POST 2LF	0	49	76	95	2.9
GOALTENDER WHITE SPEAR	2	OZ/A	POST 2LF	0	59	75	97	2.2
GOALTENDER ISHIKURA	3	OZ/A	POST 2LF	0	78	80	108	3
GOALTENDER WHITE SPEAR	3	OZ/A	POST 2LF	0	70	79	78	1.7
GOALTENDER ISHIKURA	6	OZ/A	POST 2LF	0	93	89	77	2.2
GOALTENDER WHITE SPEAR	6	OZ/A	POST 2LF	0	90	84	59	1.4
LSD (P=.05)				5.1	27.2	19.1	26.9	0.73
Standard Deviation				3.5	18.7	13.1	18.5	0.5
CV				104.66	38.52	24.12	22.14	24.33

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Location: Fremont, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Trial Summary: The aim of this trial was to expand the Command label to include banana peppers (not currently labeled). Pretransplant (PRETP) applications of Command (1.34, 2.68 pt/A), Dual Magnum (0.5, 1.0 pt/A), and combinations of Command and Dual Magnum were tested for crop injury and weed control. Post-transplant (POSTTP) rates of Dual Magnum at 0.5 and 1 pt/A were also included in the trial. None of the PRETP treatments injured the peppers. The two POSTTP applications had light injury (15%) through 6 weeks after treatment. Weed control was good with all PRETP treatments. The Dual Magnum POSTTP treatments did not control lambsquarters and purslane. Herbicide treated plots produced significantly higher yields over weed free controls, but were not significantly different from each other

TRIAL LOCATION

City: Fremont
State/Prov.: Ohio
Postal Code: 43420
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/29/07
Planned Completion Date: 9/30/07

Objective: To evaluate PRE and POST rates of Dual Magnum and Command alone and in combination for weed control in peppers.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	annual grasses (various)	*Setaria spp.and Digitaria spp.*
2	AMAXX	pigweed spp.	*Amaranthus spp.*
3	CHEAL	common lambsquarter	*Chenopodium album L.*
4	POROL	common purslane	*Portulaca oleracea L.*

Crop 1: CPSAN BANANA PEPPER Variety: ETHEN
Plant Date: 05/31/07
Rate: 12 IN
Row Spacing: 4 FT

Planting Method: MACHINE PLANTED
Depth: 2 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT
Site Type: LEVEL FIELD
Tillage Type: CONVENTIONAL
Study Design: RANDOMIZED COMPLETE BLOCK

Plot Length, Unit: 25 FT
Reps: 4

SOIL DESCRIPTION

% Sand: 20	% OM: 4.4	Texture: SILTY CLAY LOAM
% Silt: 41	pH: 6.6	Soil Name: HOYTVILLE
% Clay: 39	CEC: 27	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/29/2007	6/6/2007
Time of Day:	1-3 PM	10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE TRANSPLANT	POST TRANSPLANT
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	59.3 F	60.9 F
% Relative Humidity:	76.3	63.1
Wind Velocity, Unit:	2.5 MPH	2.0 MPH
Soil Moisture:	DRY	DRY
% Cloud Cover:	100	80

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Location: Fremont, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CPSAN, PRETP	CPSAN, POSTTP
Stage Scale:	.	SEEDLING
Height, Unit:	0. .	8 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AGRASS, PRETP	AGRASS, POSTTP
Stage Scale:	.	1-3 LF
Density, Unit:	. .	LOW, PLOT
Weed 2 Code, Stage:	AMAXX, PRETP	AMAXX, POSTTP
Stage Scale:	.	4 LF
Density, Unit:	. .	LOW, PLOT
Weed 3 Code, Stage:	CHEAL, PRETP	CHEAL, POSTTP
Stage Scale:	.	2-4 LF
Density, Unit:	. .	LOW, PLOT
Weed 4 Code, Stage:	POROL, PRETP	POROL, POSTTP
Stage Scale:	.	2-4 LF
Density, Unit:	. .	LOW, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	40
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	2	2
Band Width, Unit:	3 FT	3 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.5 MPH
Spray Volume, Unit:	25 GPA	25 GPA

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code								AGRASS
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				BURN	STUNT	LEAF CURL	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/6/07	6/6/07	6/6/07
Trt-Eval Interval				1WAT	1WAT	1WAT	1WAT	1WAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
UNTREATED CONTROL				0	0	0	0	0
WEED FREE CONTROL				0	0	0	0	99
DUAL MAGNUM	0.5	PT/A	PRETP	0	0	0	0	98
DUAL MAGNUM	1	PT/A	PRETP	0	0	0	0	97
COMMAND	1.34	PT/A	PRETP	0	0	0	0	99
COMMAND	2.68	PT/A	PRETP	0	0	0	0	74
DUAL MAGNUM+	0.5	PT/A	PRETP	0	0	0	0	99
COMMAND	1.34	PT/A	PRETP					
DUAL MAGNUM+	1	PT/A	PRETP	0	0	0	25	98
COMMAND	1.34	PT/A	PRETP					
DUAL MAGNUM+	0.5	PT/A	PRETP	0	0	0	0	97
COMMAND	2.68	PT/A	PRETP					
DUAL MAGNUM+	1	PT/A	PRETP	0	0	0	0	99
COMMAND	2.68	PT/A	PRETP					
DUAL MAGNUM	0.5	PT/A	POSTTP					
DUAL MAGNUM	1	PT/A	POSTTP					
LSD (P=.05)				0	0	0	22.7	22.7
Standard Deviation				0	0	0	15.7	15.7
CV				0	0	0	632.46	18.21

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code				CHEAL	POROL			
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	BURN	STUNT	LEAF CURL
Rating Unit				%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/13/07	6/13/07	6/13/07
Trt-Eval Interval				1WAT	1WAT	2WAT	2WAT	2WAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL				0	0	0	0	0
WEED FREE CONTROL				99	99	0	0	0
DUAL MAGNUM	0.5	PT/A	PRETP	50	0	0	0	0
DUAL MAGNUM	1	PT/A	PRETP	0	0	0	0	0
COMMAND	1.34	PT/A	PRETP	99	55	0	0	0
COMMAND	2.68	PT/A	PRETP	99	72.5	0	0	0
DUAL MAGNUM+ COMMAND	0.5 1.34	PT/A PT/A	PRETP PRETP	99	85	0	0	0
DUAL MAGNUM+ COMMAND	1 1.34	PT/A PT/A	PRETP PRETP	99	76.3	0	0	0
DUAL MAGNUM+ COMMAND	0.5 2.68	PT/A PT/A	PRETP PRETP	99	75	0	0	0
DUAL MAGNUM+ COMMAND	1 2.68	PT/A PT/A	PRETP PRETP	99	84.8	0	0	0
DUAL MAGNUM	0.5	PT/A	POSTTP					
DUAL MAGNUM	1	PT/A	POSTTP					
LSD (P=.05)				26.2	15.29	0	0	0
Standard Deviation				18.1	10.54	0	0	0
CV				24.34	19.25	0	0	0

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code					AGRASS	POROL	CHEAL	
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	WEED	WEED	WEED	PLANT
Rating Data Type				CHLOROSIS	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/13/07	6/13/07	6/13/07	6/13/07	6/20/07
Trt-Eval Interval				2WAT	2WAT	2WAT	2WAT	3 WAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
UNTREATED CONTROL				0	0	0	0	0
WEED FREE CONTROL				0	99	99	99	0
DUAL MAGNUM	0.5	PT/A	PRETP	0	73	13	25	0
DUAL MAGNUM	1	PT/A	PRETP	0	74	28	0	0
COMMAND	1.34	PT/A	PRETP	0	74	53	24	0
COMMAND	2.68	PT/A	PRETP	0	99	73	36	0
DUAL MAGNUM+ COMMAND	0.5 1.34	PT/A PT/A	PRETP PRETP	0	95	80	60	0
DUAL MAGNUM+ COMMAND	1 1.34	PT/A PT/A	PRETP PRETP	0	99	80	34	0
DUAL MAGNUM+ COMMAND	0.5 2.68	PT/A PT/A	PRETP PRETP	0	98	86	60	0
DUAL MAGNUM+ COMMAND	1 2.68	PT/A PT/A	PRETP PRETP	0	99	90	50	0
DUAL MAGNUM	0.5	PT/A	POSTTP					
DUAL MAGNUM	1	PT/A	POSTTP					
LSD (P=.05)				0	38.5	23.5	46	0
Standard Deviation				0	26.6	16.2	31.7	0
CV				0	32.79	27.03	81.85	0

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code				AGRASS	CHEAL	POROL		AGRASS	CHEAL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/20/07	6/20/07	6/20/07	7/18/07	7/18/07	7/18/07
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT	6 WAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20	21
UNTREATED CONTROL				0	0	0	35	0	0
WEED FREE CONTROL				99	99	99	1	99	99
DUAL MAGNUM	0.5	PT/A	PRETP	33	50	10	3	99	99
DUAL MAGNUM	1	PT/A	PRETP	25	3	24	5	99	99
COMMAND	1.34	PT/A	PRETP	48	29	68	1	99	99
COMMAND	2.68	PT/A	PRETP	58	46	71	0	99	99
DUAL MAGNUM+ COMMAND	0.5 1.34	PT/A PT/A	PRETP PRETP	53	48	71	3	99	99
DUAL MAGNUM+ COMMAND	1 1.34	PT/A PT/A	PRETP PRETP	64	46	75	3	99	99
DUAL MAGNUM+ COMMAND	0.5 2.68	PT/A PT/A	PRETP PRETP	60	69	83	0	99	99
DUAL MAGNUM+ COMMAND	1 2.68	PT/A PT/A	PRETP PRETP	64	65	80	1	99	99
DUAL MAGNUM	0.5	PT/A	POSTTP				4	99	99
DUAL MAGNUM	1	PT/A	POSTTP				7	99	99
LSD (P=.05)				28.3	31.5	12.9	13	0	0
Standard Deviation				19.5	21.7	8.9	9	0	0
CV				38.92	47.78	15.32	174.24	0.03	0.03

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code				POROL					AGRASS
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	BURN	STUNT	LEAF CURL	CHLOROSIS	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/18/07	6/13/07	6/13/07	6/13/07	6/13/07	6/13/07
Trt-Eval Interval				6 WAT	1WAT	1WAT	1WAT	1WAT	1WAT
Spray Timing:				PRE	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26	27
UNTREATED CONTROL				0	0	0	0	0	0
WEED FREE CONTROL				98	0	0	0	0	99
DUAL MAGNUM	0.5	PT/A	PRETP	90					
DUAL MAGNUM	1	PT/A	PRETP	66					
COMMAND	1.34	PT/A	PRETP	96					
COMMAND	2.68	PT/A	PRETP	97					
DUAL MAGNUM+ COMMAND	0.5 1.34	PT/A PT/A	PRETP PRETP	94					
DUAL MAGNUM+ COMMAND	1 1.34	PT/A PT/A	PRETP PRETP	98					
DUAL MAGNUM+ COMMAND	0.5 2.68	PT/A PT/A	PRETP PRETP	97					
DUAL MAGNUM+ COMMAND	1 2.68	PT/A PT/A	PRETP PRETP	98					
DUAL MAGNUM	0.5	PT/A	POSTTP	89	3	3	0	0	49
DUAL MAGNUM	1	PT/A	POSTTP	84	3	3	0	0	25
LSD (P=.05)				19.3	4.6	4.6	0	0	53.5
Standard Deviation				13.4	2.9	2.9	0	0	33.5
CV				15.9	230.94	230.94	0	0	77.7

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code				POROL	CHEAL				
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	BURN	STUNT	LEAF CURL	CHLOROSIS
Rating Unit				%	%	%	%	%	%
Rating Date				6/13/07	6/13/07	6/27/07	6/27/07	6/27/07	6/27/07
Trt-Eval Interval				1WAT	1WAT	3WAT	3WAT	3WAT	3WAT
Spray Timing:				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31	32	33
UNTREATED CONTROL				0	0	0	0	0	0
WEED FREE CONTROL				99	99	0	0	0	0
DUAL MAGNUM	0.5	PT/A	PRETP						
DUAL MAGNUM	1	PT/A	PRETP						
COMMAND	1.34	PT/A	PRETP						
COMMAND	2.68	PT/A	PRETP						
DUAL MAGNUM+ COMMAND	0.5 1.34	PT/A PT/A	PRETP PRETP						
DUAL MAGNUM+ COMMAND	1 1.34	PT/A PT/A	PRETP PRETP						
DUAL MAGNUM+ COMMAND	0.5 2.68	PT/A PT/A	PRETP PRETP						
DUAL MAGNUM+ COMMAND	1 2.68	PT/A PT/A	PRETP PRETP						
DUAL MAGNUM	0.5	PT/A	POSTTP	25	50	0	0	0	0
DUAL MAGNUM	1	PT/A	POSTTP	18	74	0	0	0	0
LSD (P=.05)				34	54.4	0	0	0	0
Standard Deviation				21.2	34	0	0	0	0
CV				60.01	61.08	0	0	0	0

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code				AGRASS	CHEAL		AGRASS	CHEAL	POROL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/27/07	6/27/07	7/18/07	7/18/07	7/18/07	7/18/07
Trt-Eval Interval				3WAT	3WAT	6WAT	6WAT	6WAT	6WAT
Spray Timing:				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	34	35	36	37	38	39
UNTREATED CONTROL				0	0	47	0	0	0
WEED FREE CONTROL				99	99	0	99	99	99
DUAL MAGNUM	0.5	PT/A	PRETP						
DUAL MAGNUM	1	PT/A	PRETP						
COMMAND	1.34	PT/A	PRETP						
COMMAND	2.68	PT/A	PRETP						
DUAL MAGNUM+ COMMAND	0.5 1.34	PT/A PT/A	PRETP PRETP						
DUAL MAGNUM+ COMMAND	1 1.34	PT/A PT/A	PRETP PRETP						
DUAL MAGNUM+ COMMAND	0.5 2.68	PT/A PT/A	PRETP PRETP						
DUAL MAGNUM+ COMMAND	1 2.68	PT/A PT/A	PRETP PRETP						
DUAL MAGNUM	0.5	PT/A	POSTTP			16	97	100	94
DUAL MAGNUM	1	PT/A	POSTTP			13	90	100	92
LSD (P=.05)				0	0	31.9	17.6	0	3.8
Standard Deviation				0	0	17.6	7.8	0	2.1
CV				0	0	93.09	10.95	0	2.98

The Ohio State University

PEPPER - TOLERANCE OF BANANA PEPPER TO DUAL MAGNUM AND COMMAND

Trial ID: PEPPERBANF 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	40	42	44	46
Weed Code							
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				MKTB WT	MKTB WT	TTL MKTB WT	TTL MKTB WT
Rating Unit				LB/PLOT	LB/PLOT	LB/PLOT	TONS/A
Rating Date				8/13/07	9/11/07	9/11/07	9/11/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing:							
UNTREATED CONTROL				1.7	2.5	3.5	5
WEED FREE CONTROL				9.5	3.1	12.6	18.4
DUAL MAGNUM	0.5	PT/A	PRETP	12.1	6.7	18.7	27.2
DUAL MAGNUM	1	PT/A	PRETP	14.1	6.8	20.9	30.3
COMMAND	1.34	PT/A	PRETP	13.7	5.6	19.3	28
COMMAND	2.68	PT/A	PRETP	15.6	6.4	22	31.9
DUAL MAGNUM+ COMMAND	0.5 1.34	PT/A PT/A	PRETP PRETP	15.2	4.5	19.7	28.6
DUAL MAGNUM+ COMMAND	1 1.34	PT/A PT/A	PRETP PRETP	12.8	6.3	19.1	27.7
DUAL MAGNUM+ COMMAND	0.5 2.68	PT/A PT/A	PRETP PRETP	12.7	8.2	20.9	30.4
DUAL MAGNUM+ COMMAND	1 2.68	PT/A PT/A	PRETP PRETP	15.4	5.9	21.3	30.9
DUAL MAGNUM	0.5	PT/A	POSTTP	10.8	7.4	18.2	26.5
DUAL MAGNUM	1	PT/A	POSTTP	10.9	7.4	18.2	26.5
LSD (P=.05)				2.9	3.81	4.98	7.24
Standard Deviation				2.01	2.64	3.45	5.01
CV				16.67	44.69	19.32	19.32

The Ohio State University

PEPPER - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR 1

Trial ID: PEPPSPGTVW 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Trial Summary: This was a herbicide screening trial for 3 non-labeled herbicides with potential use on bell peppers These herbicides were applied both pre-transplant (PRETP) and postemergent directed (POSTD) and includec Spartan 75DF at (2.4 and 4.8 oz/A), Goaltender 4EC at (0.5 and 1 pt/A) ,and Valor 51WDG at (1.98 and 3.96 oz/A). Crop injury, weed control, and total yield were the main factors evaluated. For PRETP rates, Valor at 1.98 oz/A was the best overall treatment, followed by Goaltender at 0.5 pt/A. For POSTD treatments, Valor at 1.98 oz/A was the best overall, followed by Spartan at 4.8oz/A. There was no significant differences among the treatments

TRIAL LOCATION

City: Fremont
State/Prov.: Ohio
Postal Code: 44883
Country: USA
Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/26/07
Planned Completion Date: 11/15/07

Objective: To evaluate weed control and crop injury on bell peppers using PRE and POST applications of Spartan, Goaltender and Valor.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AMAXX	pigweed species	*Amaranth spp.*
2	ABUTH	velvetleaf	*Abutilon theophrasti Medicus*
3	CHEAL	common lambsquarters	*Chenopodium album L.*
4	AGRASS	foxtail and crabgrass species	*Setaria spp., Digitaria spp.*
5	NICPH	Apple of Peru	*Nicandra physalodes (L.)*

Crop 1: CPSAN BELL PEPPER Variety: NORTHSTAR
Planting Date: 05/26/07 Planting Method: MACHINE PLANTED
Rate: 1 PLANT/12 IN Depth: 2 IN
Row Spacing: 30 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT
Site Type: LEVEL FIELD
Tillage Type: CONVENTIONAL
Plot Length, Unit: 20 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 20
% Silt: 41
% Clay: 39
% OM: 4.4
pH: 6.3
CEC: 27
Texture: SANDY LOAM
Soil Name: HOYTVILLE
Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/18/2007	6/27/2007
Time of Day:	11 AM	10-11AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	DIRECTED
Air Temp., Unit:	64.7 F	80.5 F
% Relative Humidity:	26	70.3
Wind Velocity, Unit:	5.9 MPH	8.0 MPH

The Ohio State University

PEPPER - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR 1

Trial ID: PEPPSPGTVW 2007
Location: Fremont, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CPSAN, PRE	CPSAN, POST
Stage Scale:	.	PRE BLOOM
Height, Unit:	0. .	12 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AMAXX, PRE	AMAXX, POST
Stage Scale:	.	1-6 IN
Density, Unit:	. .	LOW, PLOT
Weed 2 Code, Stage:	ABUTH, PRE	ABUTH, POST
Stage Scale:	.	2-6 IN
Density, Unit:	. .	MEDIUM, POST
Weed 3 Code, Stage:	CHEAL, PRE	CHEAL, POST
Stage Scale:	.	2-6 IN
Density, Unit:	. .	MEDIUM, POST
Weed 4 Code, Stage:	AGRASS, PRE	AGRASS, POST
Stage Scale:	.	2-6 IN
Density, Unit:	. .	MEDIUM, POST
Weed 5 Code, Stage:	NICPH, PRE	NICPH POST
Stage Scale:	.	2-6 IN
Density, Unit:	. .	MEDIUM, POST

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	35
Nozzle Type:	FLAT FAN	DROP
Nozzle Size:	8002VS	1102VS
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	2
Band Width, Unit:	72 IN	36 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.7 MPH
Spray Volume, Unit:	25 GPA	25 GPA

The Ohio State University

PEPPER - TOLERANCE OF BELL PEPPER
TO SPARTAN, GOALTENDER AND VALOR 1

Trial ID: PEPPSPGTVW 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Weed Code						NICPH	CHEAL	AMAXX	ABUTH
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/29/07	5/29/07	5/29/07	5/29/07	5/29/07	5/29/07
Trt-Eval Interval				3DAT	3DAT	3DAT	3DAT	3DAT	3DAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Untreated Control				0	0	0	0	0	0
Handweeded Control				0	0	99	99	99	99
Spartan 75DF	2.4	OZ/A	PRE	3	1	99	99	98	50
Spartan 75DF	4.8	OZ/A	PRE	4	6	99	99	99	73
Goal Tender	0.5	PT/A	PRE	3	0	99	99	99	74
Goal Tender	1	PT/A	PRE	3	3	99	99	99	74
Valor	1.98	OZ/A	PRE	8	3	99	98	99	97
Valor	3.96	OZ/A	PRE	8	13	99	99	99	71
Spartan 75DF	2.4	OZ/A	POST						
Spartan 75DF	4.8	OZ/A	POST						
Goal Tender	0.5	PT/A	POST						
Goal Tender	1	PT/A	POST						
Valor	1.98	OZ/A	POST						
Valor	3.96	OZ/A	POST						
LSD (P=.05)				6	6.1	0	1	1	53.7
Standard Deviation				4.1	4.1	0	0.7	0.7	36.5
CV				124	131.8	0	0.82	0.82	54.25

The Ohio State University

PEPPER - TOLERANCE OF BELL PEPPER
TO SPARTAN, GOALTENDER AND VALOR 1

Trial ID: PEPPSPGTVW 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Weed Code							AGRASS	NICPH	CHEAL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CURL	CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/6/07	6/6/07	6/6/07	6/6/07
Trt-Eval Interval				2WAT	2WAT	2WAT	2WAT	2WAT	2WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
Untreated Control				0	0	0	0	0	0
Handweeded Control				0	0	0	99	99	99
Spartan 75DF	2.4	OZ/A	PRE	0	0	0	99	25	99
Spartan 75DF	4.8	OZ/A	PRE	3	3	10	99	74	99
Goal Tender	0.5	PT/A	PRE	10	0	11	99	50	74
Goal Tender	1	PT/A	PRE	33	0	28	99	74	99
Valor	1.98	OZ/A	PRE	6	0	6	99	99	99
Valor	3.96	OZ/A	PRE	15	0	26	99	99	99
Spartan 75DF	2.4	OZ/A	POST						
Spartan 75DF	4.8	OZ/A	POST						
Goal Tender	0.5	PT/A	POST						
Goal Tender	1	PT/A	POST						
Valor	1.98	OZ/A	POST						
Valor	3.96	OZ/A	POST						
LSD (P=.05)				8.6	2.6	6.6	0	46.7	25.7
Standard Deviation				5.8	1.8	4.5	0	31.7	17.5
CV				70.22	565.69	44.17	0	48.83	20.95

The Ohio State University

PEPPER - TOLERANCE OF BELL PEPPER
TO SPARTAN, GOALTENDER AND VALOR 1

Trial ID: PEPPSPGTVW 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Weed Code				AMAXX	ABUTH		AGRASS	NICPH	CHEAL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/20/07	6/20/07	6/20/07	6/20/07
Trt-Eval Interval				2WAT	2WAT	4WAT	4WAT	4WAT	4WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
Untreated Control				0	0	0	0	0	0
Handweeded Control				99	99	0	99	99	99
Spartan 75DF	2.4	OZ/A	PRE	99	0	0	100	73	91
Spartan 75DF	4.8	OZ/A	PRE	99	49	16	100	91	100
Goal Tender	0.5	PT/A	PRE	99	50	1	100	96	80
Goal Tender	1	PT/A	PRE	99	74	8	100	95	93
Valor	1.98	OZ/A	PRE	99	74	13	100	100	88
Valor	3.96	OZ/A	PRE	99	98	28	100	100	100
Spartan 75DF	2.4	OZ/A	POST						
Spartan 75DF	4.8	OZ/A	POST						
Goal Tender	0.5	PT/A	POST						
Goal Tender	1	PT/A	POST						
Valor	1.98	OZ/A	POST						
Valor	3.96	OZ/A	POST						
LSD (P=.05)				0	53.7	19.4	0	14.9	12.9
Standard Deviation				0	36.5	13.2	0	10.1	8.8
CV				0	65.87	162.26	0	12.36	10.79

The Ohio State University

PEPPER - TOLERANCE OF BELL PEPPER
TO SPARTAN, GOALTENDER AND VALOR 1

Trial ID: PEPPSPGTVW 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Weed Code				AMAXX	ABUTH			AGRASS	NICPH
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	PLANT	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/20/07	6/20/07	6/26/07	7/18/07	7/18/07	7/18/07
Trt-Eval Interval				4WAT	4WAT	5WAT	3WAT	3WAT	3WAT
Spray Timing				PRE	PRE	PRE	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24
Untreated Control				0	0	5	0	0	0
Handweeded Control				99	99	0	0	99	99
Spartan 75DF	2.4	OZ/A	PRE	98	15	1			
Spartan 75DF	4.8	OZ/A	PRE	93	30	10			
Goal Tender	0.5	PT/A	PRE	98	40	6			
Goal Tender	1	PT/A	PRE	98	58	14			
Valor	1.98	OZ/A	PRE	93	75	6			
Valor	3.96	OZ/A	PRE	100	100	23			
Spartan 75DF	2.4	OZ/A	POST				0	99	86
Spartan 75DF	4.8	OZ/A	POST				0	99	86
Goal Tender	0.5	PT/A	POST				8	99	85
Goal Tender	1	PT/A	POST				8	99	86
Valor	1.98	OZ/A	POST				3	99	88
Valor	3.96	OZ/A	POST				4	99	85
LSD (P=.05)				11	49.2	8.1	4.2	0	12.7
Standard Deviation				7.5	33.4	5.5	2.9	0	8.6
CV				8.81	64.25	67.48	122.26	0	10.88

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PEPPER - TOLERANCE OF BELL PEPPER
TO SPARTAN, GOALTENDER AND VALOR 1

Trial ID: PEPPSPGTVW 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Weed Code				CHEAL	AMAXX	NICPH			
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	WEED	WEED	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	CONTROL	CONTROL	MKTB NO	MKTB WT	MKTB WT
Rating Unit				%	%	%	PER PLOT	LB/PLOT	TONS/A
Rating Date				7/18/07	7/18/07	8/12/07	8/14/07	8/14/07	8/14/07
Trt-Eval Interval				3WAT	3WAT	7WAT	HARVEST	HARVEST	HARVEST
Spray Timing				POST	POST	POST			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28	29	30
Untreated Control				0	0	0	8	3	2.7
Handweeded Control				99	99	99	13	4.5	3.9
Spartan 75DF	2.4	OZ/A	PRE				15	5.1	4.4
Spartan 75DF	4.8	OZ/A	PRE				16	4.9	4.3
Goal Tender	0.5	PT/A	PRE				15	5.1	4.4
Goal Tender	1	PT/A	PRE				8	2.5	2.2
Valor	1.98	OZ/A	PRE				11	3.8	3.3
Valor	3.96	OZ/A	PRE				11	3.8	3.3
Spartan 75DF	2.4	OZ/A	POST	86	64	69	10	3.1	2.7
Spartan 75DF	4.8	OZ/A	POST	83	90	76	10	3.9	3.4
Goal Tender	0.5	PT/A	POST	68	67	78	8	2.8	2.4
Goal Tender	1	PT/A	POST	83	97	90	9	2.7	2.4
Valor	1.98	OZ/A	POST	85	88	86	12	4.5	3.9
Valor	3.96	OZ/A	POST	76	97	81	9	3.5	3.1
LSD (P=.05)				18.7	30.5	23.9	5.7	2.1	1.83
Standard Deviation				12.7	20.7	16.3	4	1.47	1.28
CV				16.84	26.62	23.66	36.26	38.78	38.78

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PEPPER - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR 2

Trial ID: PEPPSPGTVW 2007
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Trial Summary: This was a herbicide screening trial for 3 non-labeled herbicides for potential use on bell peppers. These herbicides were applied both pre-transplant (PRETP) and postemergence-directed(POSTD), and included Spartan 75 DF at (2.4 and 4.8 oz/A), Goaltender 4EC at (0.5 and 1 pt/A), and Valor 51WDG at (1.98 and 3.96 oz/A). Crop injury, weed control, and total yield were the main factors evaluated. For PRETP rates, Spartan at both rates was the best overall. Goaltender and Valor at both rates had significantly lower yields than the hand-weeded control. All POSTD treatments did well except for Valor at 3.96 oz/A which significantly decreased yield.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 06/15/07
Planned Completion Date: 09/15/07

Objective: To evaluate weed control and crop injury on bell peppers using PRE and POST aqpplications of Spartan, Goaltender, and Valor.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CHEAL	common lambsquarter	*Chenopodium album L.*
2	POROL	common purslane	*Portulaca oleracea L.*
3	AGRASS	crabgrass, fall panicum	*Digsa, Pandi spp.*
4	AMBEL	common ragweed	*Ambrosia artemisiifolia L.*

Crop 1: CPSAN BELL PEPPER
Planting Date: 06/15/07
Rate: 1 PLANT PER 12 IN
Row Spacing: 48 IN

Variety: NORTHSTAR
Planting Method: MACHINE PLANTED
Depth: 2 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 3 FT
Site Type: LEVEL FIELD
Tillage Type: CONVENTIONAL

Plot Length, Unit: 25 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11
% Silt: 75
% Clay: 14

% OM: 3.11
pH: 6.86
CEC: 14

Texture: SILT LOAM
Soil Name: WOOSTER SILT LOAM
Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	6/15/2007	8/10/2007
Time of Day:	10 AM	2:30PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	DIRECTED
Air Temp., Unit:	68.1 F	80.8 F
% Relative Humidity:	62.6	59.7
Wind Velocity, Unit:	5.4 MPH	5.8 MPH
Soil Moisture:	MOIST	DRY
% Cloud Cover:	50	50

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PEPPER - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR 2

Trial ID: PEPPSPGTVW 2007
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CPSAN, PRE	CPSAN, POST
Stage Scale:	.	FRUITING
Height, Unit:	0. .	12 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	CHEAL, PRE	CHEAL, POST
Stage Scale:	.	1-5 IN
Density, Unit:	. .	LOW, PLOT
Weed 2 Code, Stage:	POROL, PRE	POROL, POST
Stage Scale:	.	1-12 IN
Density, Unit:	. .	LOW, PLOT
Weed 3 Code, Stage:	AGRASS, PRE	AGRASS, POST
Stage Scale:	.	6 IN DIAM
Density, Unit:	. .	LOW, PLOT
Weed 4 Code, Stage:	AMBEL, PRE	AMBEL, POST
Stage Scale:	.	6 IN
Density, Unit:	. .	LOW, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	40	35
Nozzle Type:	FLAT FAN	DROP
Nozzle Size:	8002VS	1102VS
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	2
Band Width, Unit:	72 IN	36 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.7 MPH
Spray Volume, Unit:	25 GPA	25 GPA

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PEPPER - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR 2

Trial ID: PEPPSPGTVW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code									
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	BURN	CHLOROSIS	STUNT	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				6/22/07	6/22/07	6/22/07	7/6/07	7/6/07	7/6/07
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
Untreated Control				0	0	3	0	0	0
Spartan 75DF	2.4	OZ/A	PRE	0	0	20	1	4	4
Spartan 75DF	4.8	OZ/A	PRE	0	0	14	6	8	15
Goal Tender	0.5	PT/A	PRE	0	4	55	16	43	85
Goal Tender	1	PT/A	PRE	0	0	51	11	41	89
Valor	1.98	OZ/A	PRE	0	5	41	5	39	29
Valor	3.96	OZ/A	PRE	0	10	59	9	50	49
Spartan 75DF	2.4	OZ/A	POST						
Spartan 75DF	4.8	OZ/A	POST						
Goal Tender	0.5	PT/A	POST						
Goal Tender	1	PT/A	POST						
Valor	1.98	OZ/A	POST						
Valor	3.96	OZ/A	POST						
HW control									
LSD (P=.05)				0	2.8	27.7	13.6	13.8	26.4
Standard Deviation				0	1.9	18.6	9.2	9.3	17.8
CV				0	69.51	53.6	131.62	35.31	46.12

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PEPPER - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR 2

Trial ID: PEPPSPGTVW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							AGRASS	AMBEL	CHEAL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	BURN	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				8/17/07	8/17/07	8/17/07	8/17/07	8/17/07	8/17/07
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
Untreated Control									
Spartan 75DF	2.4	OZ/A	PRE						
Spartan 75DF	4.8	OZ/A	PRE						
Goal Tender	0.5	PT/A	PRE						
Goal Tender	1	PT/A	PRE						
Valor	1.98	OZ/A	PRE						
Valor	3.96	OZ/A	PRE						
Spartan 75DF	2.4	OZ/A	POST	0	0	1	10	99	99
Spartan 75DF	4.8	OZ/A	POST	0	1	5	99	99	99
Goal Tender	0.5	PT/A	POST	0	3	8	99	99	99
Goal Tender	1	PT/A	POST	0	3	3	99	99	99
Valor	1.98	OZ/A	POST	0	0	9	74	99	99
Valor	3.96	OZ/A	POST	0	14	14	99	99	99
HW control				0	0	0	99	99	99
LSD (P=.05)				0	5.1	7.1	28.4	0	0
Standard Deviation				0	3.5	4.8	19.1	0	0
CV				0	121.26	86.29	23.09	0	0

The Ohio State University

PEPPER - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR 2

Trial ID: PEPPSPGTVW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POROL				AGRASS	AMBEL	CHEAL
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	CHLOROSIS	STUNT	BURN	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%	%
Rating Date				8/17/07	8/31/07	8/31/07	8/31/07	8/31/07	8/31/07	8/31/07
Trt-Eval Interval				1 WAT	3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18	19
Untreated Control										
Spartan 75DF	2.4	OZ/A	PRE							
Spartan 75DF	4.8	OZ/A	PRE							
Goal Tender	0.5	PT/A	PRE							
Goal Tender	1	PT/A	PRE							
Valor	1.98	OZ/A	PRE							
Valor	3.96	OZ/A	PRE							
Spartan 75DF	2.4	OZ/A	POST	99	0	0	1	74	99	99
Spartan 75DF	4.8	OZ/A	POST	99	0	4	4	99	99	99
Goal Tender	0.5	PT/A	POST	99	0	0	0	99	99	99
Goal Tender	1	PT/A	POST	99	0	4	0	99	99	99
Valor	1.98	OZ/A	POST	99	0	0	5	74	99	99
Valor	3.96	OZ/A	POST	99	0	14	15	99	99	99
HW control				99	0	0	0	99	99	99
LSD (P=.05)				0	0	6.7	5.9	35.9	0	0
Standard Deviation				0	0	4.5	3.9	24.2	0	0
CV				0	0	148.92	110.5	26.27	0	0

The Ohio State University

PEPPER - TOLERANCE OF BELL PEPPER TO SPARTAN, GOALTENDER, AND VALOR 2

Trial ID: PEPPSPGTVW 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POROL					
Crop Code				CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated				WEED	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	MKTB NO	MKTB WT	MKTB WT	IMMAT NO	IMMAT WT
Rating Unit				%	PER PLOT	LB/PLOT	TONS/A	PER PLOT	LB/PLOT
Rating Date				8/31/07	8/6/07	8/6/07	8/6/07	8/6/07	8/6/07
Trt-Eval Interval				3 WAT	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing				POST					
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	20	21	22	23	26	27
Untreated Control					9	3.8	3.4	6	0.9
Spartan 75DF	2.4	OZ/A	PRE		14	6.2	5.6	2	0.3
Spartan 75DF	4.8	OZ/A	PRE		12	4.8	4.4	6	0.9
Goal Tender	0.5	PT/A	PRE		5	1.7	1.6	10	1.3
Goal Tender	1	PT/A	PRE		6	2.1	1.9	5	0.9
Valor	1.98	OZ/A	PRE		8	3.3	2.9	9	1.5
Valor	3.96	OZ/A	PRE		6	2.1	1.9	10	1.8
Spartan 75DF	2.4	OZ/A	POST	99	14	5.7	5.2	9	1.5
Spartan 75DF	4.8	OZ/A	POST	99	12	5.4	4.9	5	0.9
Goal Tender	0.5	PT/A	POST	99	12	5.4	4.9	8	1.2
Goal Tender	1	PT/A	POST	99	13	5.5	5	7	1.1
Valor	1.98	OZ/A	POST	99	13	5.4	4.9	7	1
Valor	3.96	OZ/A	POST	99	9	3.7	3.3	6	0.9
HW control				99	15	6.3	5.7	7	0.8
LSD (P=.05)				0	5.6	2.56	2.32	5.7	0.88
Standard Deviation				0	3.9	1.79	1.63	4	0.61
CV				0	37.82	40.89	40.89	58.76	57.97

The Ohio State University

PICKLE - WEED CONTROL AND CROP TOLERANCE WITH DUAL MAGNUM PRE

Trial ID: PICKDMPRE 2007 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Trial Summary: Dual Magnum is not labeled for direct-seeded pickles; this trial evaluated its potential with this crop poten Factors for evaluation included crop injury, weed control and total yield. Both rates caused plant stunting; the high rate of Dual Magnum (4 pt/A), resulted in a 43% over all stand loss. Surviving plants were severely stunted (up to 6 weeks after application) resulting in poor yield. Weed control was very good on pigweed and purslane, and poor on common mallow and prostate knotweed.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 05/23/07
Planned Completion Date: 11/15/07

Objective: To observe injury on direct seeded pickles with two rates of Dual Magnum.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	AGRASS	foxtail, crabgrass spp.	*Setaria, Digitaria spp.*
2	AMAXX	pigweed spp.	*Amaranthus spp.*
3	SOLPT	Eastern black nightshade	*Solanum ptycanthum Dun.*
4	CYPES	yellow nutsedge	*Cyperus esclentes L.*
5	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
6	POROL	common purslane	*Portulaca oleracea L.*
7	MALNE	common mallow	*Malva neglecta Wallr.*
8	POLAV	prostrate knotweed	*Polygonum aviculare L.*

Crop 1: CUMSA
Planting Date: 05/23/07
Rate: 1 SEED/FT
Row Spacing: 9 FT
Soil Moisture: DRY

HYBRID CUCUMBER (PICKLING)
Variety: PANCHO VILLA
Planting Method: CONVENTIONAL
Depth: 0.75 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 3 FT
Site Type: LEVEL FIELD
Tillage Type: CONVENTIONAL

Plot Length, Unit: 25 FT
Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 11
% Silt: 75
% Clay: 14

% OM: 3.11
pH: 6.86
CEC: 14

Texture: SILT LOAM
Soil Name: WOOSTER SILT LOAM
Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	5/24/2007
Time of Day:	10-11 AM
Application Method:	SPRAY
Application Timing:	PRE
Applic. Placement:	BROADCAST
Air Temp., Unit:	77 F
% Relative Humidity:	59
Wind Velocity, Unit:	1.7 MPH
Soil Moisture:	DRY
% Cloud Cover:	0

The Ohio State University

PICKLE - WEED CONTROL AND CROP TOLERANCE WITH DUAL MAGNUM PRE

Trial ID: PICKDMPRE 2007 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUMSA, PRE
Stage Scale:	.
Height, Unit:	0. .

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGRASS, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	AMAXX, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	SOLPT, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	CYPES, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	POLPY, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	POROL, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	MALNE, PRE
Stage Scale:	.
Density, Unit:	. .
Weed 8 Code, Stage:	POLAV, PRE
Stage Scale:	.
Density, Unit:	. .

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Band Width, Unit:	6 FT
Boom Height, Unit:	18 IN
Ground Speed, Unit:	2.5 MPH

The Ohio State University

PICKLE - WEED CONTROL AND CROP TOLERANCE WITH DUAL MAGNUM PRE

Trial ID: PICKDMPRE 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							POLAV	MALNE	CYPES
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				CROP	CROP	CROP	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	DEATH	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/7/07	6/7/07	6/7/07	6/7/07	6/7/07	6/7/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15	16
WEEDY CONTROL				0	0	0	0	0	0
DUAL MAGNUM	2	PT/A	PRE	0	38	2	93	76	80
DUAL MAGNUM	4	PT/A	PRE	12	55	44	93	94	88
LSD (P=.05)				16.5	21.5	23.2	22.7	47.7	13.8
Standard Deviation				7.3	9.5	10.2	10	21.1	6.1
CV				186.81	30.54	67.69	16.21	37.09	10.91

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PICKLE - WEED CONTROL AND CROP TOLERANCE WITH DUAL MAGNUM PRE

Trial ID: PICKDMPRE 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						POLAV	MALNE	AMAXX	POROL
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				CROP	CROP	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/21/07	6/21/07	6/21/07	6/21/07	6/21/07	6/21/07
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	4 WAT	4 WAT	4 WAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21	22
WEEDY CONTROL				0	0	0	0	0	0
DUAL MAGNUM	2	PT/A	PRE	0	50	0	66	99	83
DUAL MAGNUM	4	PT/A	PRE	0	88	0	83	99	99
LSD (P=.05)				0	16.5	0	66.02	0	37
Standard Deviation				0	7.3	0	29.13	0	16.3
CV				0	15.76	0	58.65	0	26.97

The Ohio State University

PICKLE - WEED CONTROL AND CROP TOLERANCE WITH DUAL MAGNUM PRE

Trial ID: PICKDMPRE 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				AGGRE	POLPY	CYPES		
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	CROP	CROP
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				6/21/07	6/21/07	6/21/07	7/12/07	7/12/07
Trt-Eval Interval				4 WAT	4 WAT	4 WAT	6 WAT	6 WAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	23	24	25	26	27
WEEDY CONTROL				0	0	0	0	0
DUAL MAGNUM	2	PT/A	PRE	0	66	76	0	20
DUAL MAGNUM	4	PT/A	PRE	0	99	96	0	70
LSD (P=.05)				0	74.8	33.5	0	34.6
Standard Deviation				0	33	14.8	0	15.3
CV				0	60	25.7	0	50.92

The Ohio State University

PICKLE - WEED CONTROL AND CROP TOLERANCE WITH DUAL MAGNUM PRE

Trial ID: PICKDMPRE 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLAV	MALVA	AMAXX	POROL	AGGRE
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				7/12/07	7/12/07	7/12/07	7/12/07	7/12/07
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	28	29	30	31	32
WEEDY CONTROL				0	0	0	0	0
DUAL MAGNUM	2	PT/A	PRE	0	66	89	84	83
DUAL MAGNUM	4	PT/A	PRE	50	56	89	99	76
LSD (P=.05)				64.8	81.2	34.6	33.2	42.5
Standard Deviation				28.6	35.8	15.3	14.7	18.8
CV				172.63	87.84	25.66	24	35.39

The Ohio State University

PICKLE - WEED CONTROL AND CROP TOLERANCE WITH DUAL MAGNUM PRE

Trial ID: PICKDMPRE 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLPY	CYPES			
Crop Code				CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated				WEED	WEED	PLANT	FRUIT	FRUIT
Rating Data Type				CONTROL	CONTROL	NUMBER	MKTB NO	MKTB WT
Rating Unit				%	%	EACH	NO	LBS
Rating Date				7/12/07	7/12/07	8/15/07	8/15/07	8/15/07
Trt-Eval Interval				6 WAT	6 WAT	HARVEST	HARVEST	HARVEST
Spray Timing:				PRE	PRE			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	33	34	35	36	37
WEEDY CONTROL				0	0	3	21	20.75
DUAL MAGNUM	2	PT/A	PRE	33	58	3	20	19.37
DUAL MAGNUM	4	PT/A	PRE	99	89	1	6	5.1
LSD (P=.05)				74.8	24.9	1.5	6.5	8.299
Standard Deviation				33	11	0.7	2.8	3.661
CV				75	22.34	24	16.22	21.78

The Ohio State University

RASPBERRY, BLACK- WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Trial Summary: This trial evaluated 2 non-labeled herbicides for potential use in bramble weed control. Callisto 4L at (3 and 6 oz/A.), was evaluated alone and in combination with Princep Caliber 4L at (16 oz/A) in PRE and POST applications. Casoron 4G (at 100#/A) was also included as a "grower standard" treatment. Evaluation factors included crop injury, weed control, and total yield. The addition of Princep Caliber to Callisto (PRE) improved control of Canada thistle and quackgrass. Casoron was the best overall treatment, although the tank-mix of Princep Caliber and Callisto at 6 oz/A (PRE) had good overall weed control except for hedge bindweed. Yields were not significantly different among treatments

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 03/27/07
Planned Completion Date: 11/15/07

Objective: To confirm and expand on the list of minor use crops for potential mesotrione label expansion.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	AGGRE	quackgrass
2	CARHI	hairy bittercress
3	CERVU	mouseear chickweed
4	CIRAR	Canada thistle
5	POAAN	annual bluegrass
6	SOOCA	Canada goldenrod
7	TAROF	dandelion
8	CAGSE	hedge bindweed
9	PRTQU	Virginia-creeper

Crop 1: RUBSG BLACK RASPBERRY Variety: BRISTOL
Planting Date: 05/15/87 Planting Method: CONVENTIONAL
Rate: 600 PLANTS/A Depth: 3 IN Perennial Age: 20 YEARS
Row Spacing: 10 FT

SITE AND DESIGN

Plot Width, Unit: 4 FT
Site Type: LEVEL FIELD
Tillage Type: NONE

SOIL DESCRIPTION

% Sand: 16 % OM: 3.11 Texture: SILT LOAM
% Silt: 72 pH: 6.0 Soil Name: WOOSTER SILT LOAM
% Clay: 12 CEC: 14 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	3/27/2007	4/24/2007
Time of Day:	2-3 PM	10-11 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	79 F	60 F
% Relative Humidity:	69	53
Wind Velocity, Unit:	1 MPH	1.2 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	100	80

The Ohio State University

RASPBERRY, BLACK- WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	RUBSG, PRE	RUBSG, POST
Stage Scale:	DORMANT	0.75 IN SHOOT
Height, Unit:	36 IN	36 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AGGRE, PRE	AGGRE, POST
Stage Scale:	3 IN	6 IN
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 2 Code, Stage:	CARHI, PRE	CARHI, POST
Stage Scale:	PRE-BLOOM	BLOOM
Density, Unit:	LOW, PLOT	MEDIUM, PLOT
Weed 3 Code, Stage:	CERVU, PRE	CERVU, POST
Stage Scale:	2 IN DIAMETER	5 IN DIAMETER
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 4 Code, Stage:	CIRAR, PRE	CIRAR, POST
Stage Scale:	2 IN DIAMETER	4 IN DIAMETER
Density, Unit:	LOW, PLOT	MEDIUM, PLOT
Weed 5 Code, Stage:	POAAN, PRE	POAAN, POST
Stage Scale:	2 IN DIAMETER	4 IN DIAMETER
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 6 Code, Stage:	SOOCA, PRE	SOOCA, POST
Stage Scale:	2 IN	4 IN
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 7 Code, Stage:	TAROF, PRE	TAROF, POST
Stage Scale:	2 IN DIAMETER	4 IN DIAMETER
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 8 Code, Stage:	CAGSE, PRE	CAGSE, POST
Stage Scale:	3 IN	6 IN
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 9 Code, Stage:	PRTQU, PRE	PRTQU, POST
Stage Scale:	3 IN	6 IN
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003VS	8003VS
Nozzles/Row:	1	1
Band Width, Unit:	24 IN	24 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

The Ohio State University

RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						AGGRE	CARHI	CERVU
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/24/07	4/24/07	4/24/07	4/24/07	4/24/07
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	1	2	3	4	5
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	45	9	53	96	96
CALLISTO +	3	FL OZ/A	PRE	44	11	25	99	99
PRINCEP CALIBER	16	OZ/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	63	4	71	99	99
CALLISTO+	6	FL OZ/A	PRE	69	24	73	99	99
PRINCEP CALIBER	16	OZ/A	PRE					
CASORON	100	LB/A	PRE	0	0	72	83	83
CALLISTO+	3	FL OZ/A	POST					
NIS	0.25	QT/A	POST					
CALLISTO+	3	FL OZ/A	POST					
PRINCEP CALIBER	16	OZ/A	POST					
NIS	0.25	QT/A	POST					
LSD (P=.05)				24.6	8.1	63.5	6.3	6.3
Standard Deviation				16.3	5.4	42.2	4.2	4.2
CV				44.56	68.22	86.02	5.28	5.28

The Ohio State University

RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CIRAR	POANN	SOOCA	TAROF	
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				4/24/07	4/24/07	4/24/07	4/24/07	5/8/07
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT	42 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	6	7	8	9	10
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	91	41	59	99	20
CALLISTO +	3	FL OZ/A	PRE	88	65	90	99	35
PRINCEP CALIBER	16	OZ/A	PRE					
CALLISTO+	6	FL OZ/A	PRE	92	62	85	99	25
CALLISTO+	6	FL OZ/A	PRE	93	73	73	99	53
PRINCEP CALIBER	16	OZ/A	PRE					
CASORON	100	LB/A	PRE	83	97	99	99	0
CALLISTO+	3	FL OZ/A	POST					
NIS	0.25	QT/A	POST					
CALLISTO+	3	FL OZ/A	POST					
PRINCEP CALIBER	16	OZ/A	POST					
NIS	0.25	QT/A	POST					
LSD (P=.05)				15.4	46	37.5	0	28.9
Standard Deviation				10.2	30.5	24.9	0	19.2
CV				13.7	54.19	36.83	0	86.94

The Ohio State University

RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code					AGGRE	CARHI	CERVU	CIRAR	POANN
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	WEED	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/8/07	5/8/07	5/8/07	5/8/07	5/8/07	5/8/07
Trt-Eval Interval				42 DAT	42 DAT	42 DAT	42 DAT	42 DAT	42 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	11	12	13	14	15	16
CONTROL				0	0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	10	25	96	99	35	99
CALLISTO +	3	FL OZ/A	PRE	14	37	99	99	56	99
PRINCEP CALIBER	16	OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE	14	25	98	99	74	94
CALLISTO+	6	FL OZ/A	PRE	24	99	99	99	60	99
PRINCEP CALIBER	16	OZ/A	PRE						
CASORON	100	LB/A	PRE	0	67	88	97	81	97
CALLISTO+	3	FL OZ/A	POST						
NIS	0.25	QT/A	POST						
CALLISTO+	3	FL OZ/A	POST						
PRINCEP CALIBER	16	OZ/A	POST						
NIS	0.25	QT/A	POST						
LSD (P=.05)				16.6	46.4	5.8	2.8	64.5	6.6
Standard Deviation				11	30.8	3.9	1.8	42.8	4.4
CV				107.9	72.96	4.86	2.24	84.22	5.41

The Ohio State University

RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SOOCA	TAROF			POANN	CAGSE
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	PLANT	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/8/07	5/8/07	5/22/07	5/22/07	5/22/07	5/22/07
Trt-Eval Interval				42 DAT	42 DAT	56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	17	18	19	20	21	22
CONTROL				0	0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	27	94	5	5	99	25
CALLISTO +	3	FL OZ/A	PRE	15	93	8	8	99	0
PRINCEP CALIBER	16	OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE	37	94	9	9	99	13
CALLISTO+	6	FL OZ/A	PRE	74	99	10	10	99	0
PRINCEP CALIBER	16	OZ/A	PRE						
CASORON	100	LB/A	PRE	62	97	0	0	99	25
CALLISTO+	3	FL OZ/A	POST						
NIS	0.25	QT/A	POST						
CALLISTO+	3	FL OZ/A	POST						
PRINCEP CALIBER	16	OZ/A	POST						
NIS	0.25	QT/A	POST						
LSD (P=.05)				61.3	9.4	8.9	12.6	0	48.4
Standard Deviation				40.7	6.2	5.9	8.4	0	32.1
CV				113.19	7.84	113.48	160.56	0	310.64

The Ohio State University

RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CARHI	TAROF	SOOCA	CERVU	AGGRE	CIRAR
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	23	24	25	26	27	28
CONTROL				0	0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	99	99	25	74	74	50
CALLISTO +	3	FL OZ/A	PRE	99	99	50	99	0	50
PRINCEP CALIBER	16	OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE	99	99	25	99	50	50
CALLISTO+	6	FL OZ/A	PRE	99	99	74	99	96	72
PRINCEP CALIBER	16	OZ/A	PRE						
CASORON	100	LB/A	PRE	87	99	97	99	74	74
CALLISTO+	3	FL OZ/A	POST						
NIS	0.25	QT/A	POST						
CALLISTO+	3	FL OZ/A	POST						
PRINCEP CALIBER	16	OZ/A	POST						
NIS	0.25	QT/A	POST						
LSD (P=.05)				15.1	0	67.9	30.5	45.9	78.2
Standard Deviation				10	0	45.1	20.2	30.4	51.9
CV				12.43	0	99.9	25.78	62.23	105.7

The Ohio State University

RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				PRTQU			AGGRE	CARHI	CERVU
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/22/07	5/8/07	5/8/07	5/8/07	5/8/07	5/8/07
Trt-Eval Interval				56 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT
Spray Timing:				PRE	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	29	30	31	32	33	34
CONTROL				0	0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	50					
CALLISTO +	3	FL OZ/A	PRE	25					
PRINCEP CALIBER	16	OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE	0					
CALLISTO+	6	FL OZ/A	PRE	50					
PRINCEP CALIBER	16	OZ/A	PRE						
CASORON	100	LB/A	PRE	50					
CALLISTO+	3	FL OZ/A	POST		54	26	80	85	99
NIS	0.25	QT/A	POST						
CALLISTO+	3	FL OZ/A	POST		31	9	81	84	99
PRINCEP CALIBER	16	OZ/A	POST						
NIS	0.25	QT/A	POST						
LSD (P=.05)				49.1	29.3	34.4	41.3	11.7	0
Standard Deviation				32.6	16.9	19.9	23.9	6.8	0
CV				112.85	59.77	170.38	44.74	12.08	0

The Ohio State University

RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CIRAR	POANN	TAROF		
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				5/8/07	5/8/07	5/8/07	5/22/07	5/22/07
Trt-Eval Interval				14 DAT	14 DAT	14 DAT	28 DAT	28 DAT
Spray Timing:				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	35	36	37	38	39
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE					
CALLISTO +	3	FL OZ/A	PRE					
PRINCEP CALIBER	16	OZ/A	PRE					
CALLISTO+	6	FL OZ/A	PRE					
CALLISTO+	6	FL OZ/A	PRE					
PRINCEP CALIBER	16	OZ/A	PRE					
CASORON	100	LB/A	PRE					
CALLISTO+	3	FL OZ/A	POST	90	92	99	19	15
NIS	0.25	QT/A	POST					
CALLISTO+	3	FL OZ/A	POST	85	99	90	16	9
PRINCEP CALIBER	16	OZ/A	POST					
NIS	0.25	QT/A	POST					
LSD (P=.05)				14.2	14.5	11.7	32.9	29.1
Standard Deviation				8.2	8.4	6.8	19	16.8
CV				14.11	13.17	10.75	163.04	212.36

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RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				AGGRE	CARHI	CERVU	CIRAR	POANN	SOOCA
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing:				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	40	41	42	43	44	45
CONTROL				0	0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE						
CALLISTO +	3	FL OZ/A	PRE						
PRINCEP CALIBER	16	OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE						
PRINCEP CALIBER	16	OZ/A	PRE						
CASORON	100	LB/A	PRE						
CALLISTO+	3	FL OZ/A	POST	74	99	99	51	99	62
NIS	0.25	QT/A	POST						
CALLISTO+	3	FL OZ/A	POST	74	99	99	74	99	19
PRINCEP CALIBER	16	OZ/A	POST						
NIS	0.25	QT/A	POST						
LSD (P=.05)				49.4	0	0	73.5	0	52.9
Standard Deviation				28.6	0	0	42.5	0	30.6
CV				57.74	0	0	101.7	0	113.63

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RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	PRTQU	CAGSE			AGGRE
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				5/22/07	5/22/07	5/22/07	6/5/07	6/5/07	6/5/07
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	42 DAT	42 DAT	42 DAT
Spray Timing:				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	46	47	48	49	50	51
CONTROL				0	0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE						
CALLISTO +	3	FL OZ/A	PRE						
PRINCEP CALIBER	16	OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE						
PRINCEP CALIBER	16	OZ/A	PRE						
CASORON	100	LB/A	PRE						
CALLISTO+	3	FL OZ/A	POST	99	25	0	4	4	97
NIS	0.25	QT/A	POST						
CALLISTO+	3	FL OZ/A	POST	99	0	6	6	4	97
PRINCEP CALIBER	16	OZ/A	POST						
NIS	0.25	QT/A	POST						
LSD (P=.05)				0	49.4	12.5	8.1	11.4	4.5
Standard Deviation				0	28.6	7.2	4.7	6.6	2.6
CV				0	346.41	346.41	152.6	264.58	4.03

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RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CARHI	CERVU	CIRAR	POANN	SOOCA	TAROF
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/5/07	6/5/07	6/5/07	6/5/07	6/5/07	6/5/07
Trt-Eval Interval				42 DAT	42 DAT	42 DAT	42 DAT	42 DAT	42 DAT
Spray Timing:				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	52	53	54	55	56	57
CONTROL				0	0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE						
CALLISTO +	3	FL OZ/A	PRE						
PRINCEP CALIBER	16	OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE						
PRINCEP CALIBER	16	OZ/A	PRE						
CASORON	100	LB/A	PRE						
CALLISTO+	3	FL OZ/A	POST	99	99	50	97	50	99
NIS	0.25	QT/A	POST						
CALLISTO+	3	FL OZ/A	POST	99	99	74	99	0	99
PRINCEP CALIBER	16	OZ/A	POST						
NIS	0.25	QT/A	POST						
LSD (P=.05)				0	0	85.6	4.5	57.1	0
Standard Deviation				0	0	49.5	2.6	33	0
CV				0	0	120	3.98	200	0

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RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CAGSE	PRTQU			AGGRE
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/5/07	6/5/07	6/19/07	6/19/07	6/19/07
Trt-Eval Interval				42 DAT	42 DAT	56 DAT	56 DAT	56 DAT
Spray Timing:				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	58	59	60	61	62
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE					
CALLISTO +	3	FL OZ/A	PRE					
PRINCEP CALIBER	16	OZ/A	PRE					
CALLISTO+	6	FL OZ/A	PRE					
CALLISTO+	6	FL OZ/A	PRE					
PRINCEP CALIBER	16	OZ/A	PRE					
CASORON	100	LB/A	PRE					
CALLISTO+	3	FL OZ/A	POST	0	0	1	0	0
NIS	0.25	QT/A	POST					
CALLISTO+	3	FL OZ/A	POST	0	18	3	3	25
PRINCEP CALIBER	16	OZ/A	POST					
NIS	0.25	QT/A	POST					
LSD (P=.05)				0	35	5.9	5	49.4
Standard Deviation				0	20.2	3.4	2.9	28.6
CV				0	346.41	274.87	346.41	346.41

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CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CARHI	CERVU	CIRAR	POANN	SOOCA	CAGSE
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/19/07	6/19/07	6/19/07	6/19/07	6/19/07	6/19/07
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing:				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	63	64	65	66	67	68
CONTROL				0	0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE						
CALLISTO +	3	FL OZ/A	PRE						
PRINCEP CALIBER	16	OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE						
CALLISTO+	6	FL OZ/A	PRE						
PRINCEP CALIBER	16	OZ/A	PRE						
CASORON	100	LB/A	PRE						
CALLISTO+	3	FL OZ/A	POST	99	99	25	99	0	0
NIS	0.25	QT/A	POST						
CALLISTO+	3	FL OZ/A	POST	99	99	74	99	0	25
PRINCEP CALIBER	16	OZ/A	POST						
NIS	0.25	QT/A	POST						
LSD (P=.05)				0	0	63.8	0	0	49.4
Standard Deviation				0	0	36.9	0	0	28.6
CV				0	0	111.8	0	0	346.41

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RASPBERRY, BLACK- WEED
CONTROL AND CROP TOLERANCE
WITH CALLISTO AND PRINCEP

Trial ID: RASPBLKMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				PRTQU				
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	YIELD	YIELD	YIELD	TTL YIELD
Rating Unit				%	GRAMS	GRAMS	GRAMS	GRAMS
Rating Date				6/19/07	6/27/07	7/6/07	7/13/07	7/13/07
Trt-Eval Interval				56 DAT	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing:				POST				
Treatment Name	Product Rate	Product Rate Unit	Growth Stage	69	70	71	72	73
CONTROL				0	194.2	145.8	58.0	397.9
CALLISTO	3	FL OZ/A	PRE		143.2	145.9	55.0	344.0
CALLISTO +	3	FL OZ/A	PRE		186.8	206.9	106.6	500.2
PRINCEP CALIBER	16	OZ/A	PRE					
CALLISTO+	6	FL OZ/A	PRE		122.8	152.3	75.0	350.0
CALLISTO+	6	FL OZ/A	PRE		139.2	143.5	60.0	342.6
PRINCEP CALIBER	16	OZ/A	PRE					
CASORON	100	LB/A	PRE		134.2	159.1	57.4	350.7
CALLISTO+	3	FL OZ/A	POST	25	159.1	113.8	55.4	328.3
NIS	0.25	QT/A	POST					
CALLISTO+	3	FL OZ/A	POST	25	139.7	169.8	69.9	379.4
PRINCEP CALIBER	16	OZ/A	POST					
NIS	0.25	QT/A	POST					
LSD (P=.05)				49.4	95.3	86.1	37.4	183.9
Standard Deviation				28.6	64.8	58.5	25.5	125.0
CV				173.21	42.5	37.9	37.9	33.4

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RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Location: Wooster,Ohio

Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Trial Summary: This trial evaluated 2 unlabeled herbicides for potential use in bramble weed control. Callisto 4L (at 3 and 6oz/A), was evaluated alone and in combination with Princep Caliber 4L at (16 oz/A) in PRE and POST applications. Casoron 4G (at 100#/A) PRE was also included as a "grower standard" treatment. Evaluation factors included crop injury, weed control, and total yield The addition of Princep Caliber to Callisto improved control of Canada thistle and quackgrass Casoron was the best overall treatment, although the tank-mix of Princep Caliber and Callisto at 6 oz/A (PRE) had good overall control and the highest yield.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 03/23/07
Planned Completion Date: 11/15/07

Objective: To confirm and expand on the list of minor use crops for potential mesotrione labe expansion.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	AGGRE	quackgrass
2	CARHI	hairy bittercress
3	CERVU	mouseear chickweed
4	CIRAR	Canada thistle
5	POAAN	annual bluegrass
6	TAROF	dandelion
7	CAGSE	hedge bindweed
8	PRTQU	Virginia-creeper

Crop 1: RUBSG RED RASPBERRY Variety: NOVA
Planting Date: 05/15/02 Planting Method: CONVENTIONAL
Rate: 600 PLANTS/A Depth: 3 IN Perennial Age: 4 YEARS
Row Spacing: 10 FT Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 4 FT
Site Type: LEVEL FIELD
Tillage Type: NONE

Plot Length, Unit: 10 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 16
% Silt: 72
% Clay: 12

% OM: 3.11
pH: 6.0
CEC: 14

Texture: SILT LOAM
Soil Name: WOOSTER SILT LOAM
Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	3/23/2007	4/24/2007
Time of Day:	10-11 AM	10-11 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	DIRECTED	DIRECTED
Air Temp., Unit:	45 F	60 F
% Relative Humidity:	100	53
Wind Velocity, Unit:	1 MPH	1.2 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	100	100

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RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007 Study Dir.: Doug Doohan and T. Koch

Location: Wooster,Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	RUBSG, PRE	RUBSG, POST
Stage Scale:	BUD SWELL	0.50 IN SHOOT
Height, Unit:	36 IN	36 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AGGRE, PRE	AGGRE, POST
Stage Scale:	0.5 IN	4 IN
Density, Unit:	MEDIUM, PLOT	MEDIUM, PLOT
Weed 2 Code, Stage:	CARHI, PRE	CARHI, POST
Stage Scale:	PRE-BLOOM	BLOOM
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 3 Code, Stage:	CERVU, PRE	CERVU, POST
Stage Scale:	2 IN DIAM	4 IN DIAM
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 4 Code, Stage:	CIRAR, PRE	CIRAR, POST
Stage Scale:	2 IN	4 IN
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 5 Code, Stage:	POAAN, PRE	POAAN, POST
Stage Scale:	2 IN DIA	3 IN DIAM
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 6 Code, Stage:	TAROF, POST	TAROF, POST
Stage Scale:	2 IN DIAM	3 IN DIAM
Density, Unit:	LOW, PLOT	LOW, PLOT
Weed 7 Code, Stage:	CAGSE, PRE	CAGSE, POST
Stage Scale:	.	.
Density, Unit:	.	.
Weed 8 Code, Stage:	PRTQU, PRE	PRTQU, POST
Stage Scale:	.	.
Density, Unit:	.	.

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8003VS	8003VS
Nozzles/Row:	1	1
Band Width, Unit:	24 IN	24 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

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RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				AGGRE	CARHI	CERVU	CIRAR	POANN
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/13/07	4/13/07	4/13/07	4/13/07	4/13/07
Trt-Eval Interval				21 DAT	21 DAT	21 DAT	21 DAT	21 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	61	62	99	63	0
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE	74	99	99	53	40
CALLISTO	6	FL OZ/A	PRE	80	99	97	74	3
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE	78	99	99	75	82
CASORON	100	LB/A	PRE	25	97	99	65	50
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST					
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST					
LSD (P=.05)				38.4	29.4	2.8	9.7	37.8
Standard Deviation				25.5	19.5	1.8	6.4	25.1
CV				48.17	25.69	2.24	11.69	86.53

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RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF			AGGRE	CARHI
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	PLANT	PLANT	WEED	WEED
Rating Data Type				CONTROL	CHLOROSIS	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/13/07	4/20/07	4/20/07	4/20/07	4/20/07
Trt-Eval Interval				21 DAT	28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	48	0	0	8	70
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE	10	0	0	67	99
CALLISTO	6	FL OZ/A	PRE	93	0	0	85	99
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE	92	0	0	66	99
CASORON	100	LB/A	PRE	99	0	0	25	58
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST					
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST					
LSD (P=.05)				6.2	0	0	54.3	27
Standard Deviation				4.1	0	0	36.1	17.9
CV				7.24	0	0	86.37	25.35

The Ohio State University

RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CERVU	CIRAR	POANN	TAROF	
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				4/20/07	4/20/07	4/20/07	4/20/07	5/6/07
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT	42 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	99	65	0	32	0
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE	99	73	42	25	0
CALLISTO	6	FL OZ/A	PRE	97	83	0	87	0
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE	99	89	40	99	0
CASORON	100	LB/A	PRE	99	88	74	99	0
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST					
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST					
LSD (P=.05)				2.9	17.9	49.8	38.8	0
Standard Deviation				1.9	11.9	33	25.7	0
CV				2.31	17.98	126.82	45.2	0

The Ohio State University

RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code					AGGRE	CARHI	CERVU	CIRAR
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/6/07	5/6/07	5/6/07	5/6/07	5/6/07
Trt-Eval Interval				42 DAT	42 DAT	42 DAT	42 DAT	42 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	0	0	98	99	13
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE	0	24	99	99	0
CALLISTO	6	FL OZ/A	PRE	0	34	97	97	24
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE	0	66	99	99	70
CASORON	100	LB/A	PRE	0	0	93	94	52
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST					
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST					
LSD (P=.05)				0	42.4	4.5	5.3	35.4
Standard Deviation				0	28.2	3	3.5	23.5
CV				0	136.53	3.65	4.32	88.97

The Ohio State University

RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POANN	TAROF			AGGRE
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CHLOROSIS	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/6/07	5/6/07	5/18/07	5/18/07	5/18/07
Trt-Eval Interval				42 DAT	42 DAT	56 DAT	56 DAT	56 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	99	35	0	0	0
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE	99	46	0	0	71
CALLISTO	6	FL OZ/A	PRE	97	75	0	0	25
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE	99	78	0	0	25
CASORON	100	LB/A	PRE	97	96	0	0	25
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST					
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST					
LSD (P=.05)				4	56.9	0	0	56.9
Standard Deviation				2.7	37.7	0	0	37.7
CV				3.28	68.86	0	0	156.14

The Ohio State University

RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CARHI	CERVU	CIRAR	POANN	TAROF
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/18/07	5/18/07	5/18/07	5/18/07	5/18/07
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing:				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	99	99	0	99	50
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE	99	99	0	99	50
CALLISTO	6	FL OZ/A	PRE	99	99	13	99	74
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE	99	99	0	99	99
CASORON	100	LB/A	PRE	99	99	0	99	99
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST					
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST					
LSD (P=.05)				0	0	15.4	0	49.1
Standard Deviation				0	0	10.2	0	32.6
CV				0	0	489.9	0	52.66

The Ohio State University

RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CAGSE	PRTQU			AGGRE
Crop Code				RUB	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/18/07	5/18/07	4/6/07	4/6/07	4/6/07
Trt-Eval Interval				56 DAT	56 DAT	14 DAT	14 DAT	14 DAT
Spray Timing:				PRE	PRE	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE	99	99			
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE	99	74			
CALLISTO	6	FL OZ/A	PRE	99	50			
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE	99	74			
CASORON	100	LB/A	PRE	99	74			
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST			56	26	89
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST			74	33	88
LSD (P=.05)				0	64.4	27.2	53	3.2
Standard Deviation				0	42.7	15.7	30.6	1.9
CV				0	69.02	36.34	156.29	3.17

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RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CARHI	CERVU	CIRAR	POANN	TAROF
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/6/07	4/6/07	4/6/07	4/6/07	4/6/07
Trt-Eval Interval				14 DAT	14 DAT	14 DAT	14 DAT	14 DAT
Spray Timing:				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	36	37	38	39	40
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE					
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE					
CALLISTO	6	FL OZ/A	PRE					
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE					
CASORON	100	LB/A	PRE					
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST	91	89	84	89	89
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST	88	88	88	88	88
LSD (P=.05)				5.5	3.2	6.6	3.2	3.2
Standard Deviation				3.2	1.9	3.8	1.9	1.9
CV				5.37	3.17	6.69	3.17	3.17

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RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						AGGRE	CARHI	CERVU
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/21/07	5/21/07	5/21/07	5/21/07	5/21/07
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing:				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44	45
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE					
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE					
CALLISTO	6	FL OZ/A	PRE					
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE					
CASORON	100	LB/A	PRE					
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST	10	3	25	99	99
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST	9	6	25	99	99
LSD (P=.05)				11.1	14.2	75.5	0	0
Standard Deviation				6.4	8.2	43.7	0	0
CV				102.42	281.4	264.58	0	0

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RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CIRAR	POANN	TAROF	CAGSE	PRTQU
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/21/07	5/21/07	5/21/07	5/21/07	5/21/07
Trt-Eval Interval				28 DAT	28 DAT	28 DAT	28 DAT	28 DAT
Spray Timing:				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	46	47	48	49	50
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE					
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE					
CALLISTO	6	FL OZ/A	PRE					
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE					
CASORON	100	LB/A	PRE					
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST	35	99	74	99	74
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST	35	99	74	99	74
LSD (P=.05)				68.3	0	49.4	0	49.4
Standard Deviation				39.5	0	28.6	0	28.6
CV				170.32	0	57.74	0	57.74

The Ohio State University

RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						AGGRE	CARHI	CERVU
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/5/07	6/5/07	6/5/07	6/5/07	6/5/07
Trt-Eval Interval				42 DAT	42 DAT	42 DAT	42 DAT	42 DAT
Spray Timing:				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	51	52	53	54	55
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE					
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE					
CALLISTO	6	FL OZ/A	PRE					
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE					
CASORON	100	LB/A	PRE					
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST	8	0	0	99	99
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST	5	3	0	99	99
LSD (P=.05)				5.7	5.7	0	0	0
Standard Deviation				3.2	3.2	0	0	0
CV				75.89	379.47	0	0	0

The Ohio State University

RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CIRAR	POANN	TAROF	PRTQU	
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				6/5/07	6/5/07	6/5/07	6/5/07	6/19/07
Trt-Eval Interval				42 DAT	42 DAT	42 DAT	42 DAT	56 DAT
Spray Timing:				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	56	57	58	59	60
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE					
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE					
CALLISTO	6	FL OZ/A	PRE					
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE					
CASORON	100	LB/A	PRE					
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST	0	99	97	74	10
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST	0	99	99	74	9
LSD (P=.05)				0	0	4.5	49.4	4.8
Standard Deviation				0	0	2.6	28.6	2.8
CV				0	0	3.98	57.74	44.22

The Ohio State University

RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code					AGGRE	CARHI	CERVU	CIRAR
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/19/07	6/19/07	6/19/07	6/19/07	6/19/07
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing:				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	61	62	63	64	65
CONTROL				0	0	0	0	0
CALLISTO	3	FL OZ/A	PRE					
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE					
CALLISTO	6	FL OZ/A	PRE					
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE					
CASORON	100	LB/A	PRE					
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST	0	0	99	99	0
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST	0	0	99	99	0
LSD (P=.05)				0	0	0	0	0
Standard Deviation				0	0	0	0	0
CV				0	0	0	0	0

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RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POANN	TAROF	PRTQU	CAGSE
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				6/19/07	6/19/07	6/19/07	6/19/07
Trt-Eval Interval				56 DAT	56 DAT	56 DAT	56 DAT
Spray Timing:				POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	66	67	68	69
CONTROL				0	0	0	0
CALLISTO	3	FL OZ/A	PRE				
CALLISTO + PRINCEP 16 CALIBER	3	FL OZ/A OZ/A	PRE PRE				
CALLISTO	6	FL OZ/A	PRE				
CALLISTO+ PRINCEP 16 CALIBER	6	FL OZ/A OZ/A	PRE PRE				
CASORON	100	LB/A	PRE				
CALLISTO+ NIS	3 0.25	FL OZ/A QT/A	POST POST	99	25	0	0
CALLISTO+ PRINCEP 16 CALIBER NIS	3 0.25	FL OZ/A OZ/A QT/A	POST POST POST	99	50	25	0
LSD (P=.05)				0	63.8	49.4	0
Standard Deviation				0	36.9	28.6	0
CV				0	149.07	346.41	0

The Ohio State University

RASPBERRY, RED - WEED CONTROL AND CROP TOLERANCE WITH CALLISTO AND PRINCEP

Trial ID: RASPREDMESOW 2007
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							
Crop Code				RUBSG	RUBSG	RUBSG	RUBSG
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				YIELD	YIELD	YIELD	TTL YIELD
Rating Unit				GRAMS	GRAMS	GRAMS	GRAMS
Rating Date				6/15/07	6/20/07	6/26/07	6/26/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing:							
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	70	71	72	73
CONTROL				28.9	44.0	119.1	191.9
CALLISTO	3	FL OZ/A	PRE	26.2	44.0	135.9	206.1
CALLISTO +	3	FL OZ/A	PRE	21.7	40.5	90.7	153.0
PRINCEP 16		OZ/A	PRE				
CALIBER							
CALLISTO	6	FL OZ/A	PRE	63.7	45.1	116.2	224.9
CALLISTO+	6	FL OZ/A	PRE	21.1	170.5	114.5	306.1
PRINCEP 16		OZ/A	PRE				
CALIBER							
CASORON	100	LB/A	PRE	22.8	65.2	125.3	213.3
CALLISTO+	3	FL OZ/A	POST	22.5	56.2	154.2	232.9
NIS	0.25	QT/A	POST				
CALLISTO+	3	FL OZ/A	POST	19.9	47.3	144.8	211.9
PRINCEP 16		OZ/A	POST				
CALIBER							
NIS	0.25	QT/A	POST				
LSD (P=.05)				41.5	131.7	51.9	147.7
Standard Deviation				28.2	89.5	35.3	100.4
CV				99.6	139.7	28.2	46.2

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE TO CHATEAU APPLIED POST RENOVATION

Trial ID: STRCHATPOSTREN2007 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Trial Summary: The focus of this trial was to evaluate crop injury to strawberry varieties with Chateau at 0, 3, and 6 oz/A applied post- renovation. Strawberry beds were rotary mowed, narrowed and fertilized prior to spraying on 6/29/07. Fourteen commercial varieties were included: Allstar, Brunswick, Cabot, Cavendish, Clancy, Darselect, Earliglow, Eros,Honeoye, Itasca , Jewel Straw, Lamour, Ovation, and Seneca. Plots were rated at 1, 3, and 6 WAT for chlorosis, leaf burn, stunting, and leaf curl. Most varieties were showing some form of injury at 1 WAT. This increased over time and at 6WAT the varieties affected at the 3 oz/A rate were Brunswick (15%), and Cavendish (13%). With the 6 oz/A rate, the varieties showing injury included Cavendish (50%), Cabot (42%), Clancy (23%), and Brunswick (18%). No yields were taken.

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 06/29/07
Country: USA Planned Completion Date: 11/15/07

Objective: To evaluate Chateau applied post renovation on strawberries for crop tolerance and weed control

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	OXAST	yellow woodsorrel	*Oxalis stricta L.*
2	DIGSA	large crabgrass	*Digitaria sanguinalis (L.) Scop.*

Crop 1: FRAAN STRAWBERRY Variety: 14 VARIETIES
Planting Date: 05/10/06 Planting Method: CONVENTIONAL
Rate: 1 PER 12 IN Depth: 2 IN
Row Spacing: 36 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 50 FT
Site Type: LEVEL FIELD Reps: 3
Tillage Type: CONVENTIONAL Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 11 % OM: 3.11 Texture: SILT LOAM
% Silt: 75 pH: 6.86 Soil Name: WOOSTER SILT LOAM
% Clay: 14 CEC: 14 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	6/29/2007
Time of Day:	4-5 PM
Application Method:	SPRAY
Application Timing:	POST RENOVATION
Applic. Placement:	BROADCAST
Air Temp., Unit:	64.4 F
% Relative Humidity:	74.9
Wind Velocity, Unit:	4.5 MPH
Soil Moisture:	DRY
% Cloud Cover:	80

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	FRAAN	POST RENOVATION
Stage Scale:	MOWED	
Height, Unit:	3 IN	

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STRAWBERRY - CULTIVAR TOLERANCE TO CHATEAU APPLIED POST RENOVATION

Trial ID: STRCHATPOSTREN2007 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	OXAST, POST
Stage Scale:	1 IN
Density, Unit:	MEDIUM, PLOT
Weed 2 Code, Stage:	DIGSA, POST
Stage Scale:	0.5 IN
Density, Unit:	MEDIUM, PLOT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	4
Band Width, Unit:	5 FT
Boom Height, Unit:	15 IN
Ground Speed, Unit:	2.5 MPH
Spray Volume, Unit:	25 GPA

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE WITH CHATEAU APPLIED AFTER BED RENOVATION

Trial ID:STRCHATPOSTREN2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/12/07	7/12/07	7/12/07	7/12/07	7/24/07
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	4 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CHATEAU ALLSTAR	3	OZ/A	POST FALL	0	0	5	5	2
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	0	0	5	5	2
CHATEAU CABOT	3	OZ/A	POST FALL	0	2	0	5	0
CHATEAU CAVENDISH	3	OZ/A	POST FALL	0	0	2	3	2
CHATEAU CLANCY	3	OZ/A	POST FALL	0	7	2	3	3
CHATEAU DARSELECT	3	OZ/A	POST FALL	0	2	5	3	8
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	0	3	3	3	3
CHATEAU EROS	3	OZ/A	POST FALL	0	3	0	2	2
CHATEAU HONEOYE	3	OZ/A	POST FALL	0	0	2	3	5
CHATEAU ITASCA	3	OZ/A	POST FALL	0	3	2	3	0
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	2	3	7	2	0
CHATEAU LAMOUR	3	OZ/A	POST FALL	0	5	2	3	0
CHATEAU OVATION	3	OZ/A	POST FALL	0	2	3	3	2
CHATEAU SENECA	3	OZ/A	POST FALL	0	3	8	3	2
CHATEAU ALLSTAR	6	OZ/A	POST FALL	0	3	8	8	3
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	0	0	15	12	3
CHATEAU CABOT	6	OZ/A	POST FALL	0	2	13	10	0

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE WITH CHATEAU APPLIED AFTER BED RENOVATION

Trial ID:STRCHATPOSTREN2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/12/07	7/12/07	7/12/07	7/12/07	7/24/07
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	4 WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
CHATEAU CAVENDISH	6	OZ/A	POST FALL	0	3	13	7	2
CHATEAU CLANCY	6	OZ/A	POST FALL	0	3	13	7	2
CHATEAU DARSELECT	6	OZ/A	POST FALL	0	5	13	3	3
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	0	5	8	10	5
CHATEAU EROS	6	OZ/A	POST FALL	0	3	17	3	0
CHATEAU HONEOYE	6	OZ/A	POST FALL	0	0	3	3	3
CHATEAU ITASCA	6	OZ/A	POST FALL	0	3	10	5	0
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	0	8	5	3	0
CHATEAU LAMOUR	6	OZ/A	POST FALL	0	8	8	2	2
CHATEAU OVATION	6	OZ/A	POST FALL	0	2	8	3	0
CHATEAU SENECA	6	OZ/A	POST FALL	0	5	10	2	2
LSD (P=.05)				0.7	4.8	7.5	5.4	4.4
Standard Deviation				0.4	2.9	4.6	3.3	2.7
CV				1122.5	144.37	100.46	109.68	207.18

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE WITH CHATEAU APPLIED AFTER BED RENOVATION

Trial ID:STRCHATPOSTREN2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	LEAF CURL	THIN	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/24/07	7/24/07	7/24/07	7/24/07	8/8/07
Trt-Eval Interval				4WAT	4WAT	4WAT	4WAT	6WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
CHATEAU ALLSTAR	3	OZ/A	POST FALL	0	0	3	17	0
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	0	2	2	7	0
CHATEAU CABOT	3	OZ/A	POST FALL	0	0	3	0	0
CHATEAU CAVENDISH	3	OZ/A	POST FALL	0	2	2	5	0
CHATEAU CLANCY	3	OZ/A	POST FALL	2	3	3	0	0
CHATEAU DARSELECT	3	OZ/A	POST FALL	0	3	2	3	0
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	2	2	7	0	0
CHATEAU EROS	3	OZ/A	POST FALL	0	2	3	5	0
CHATEAU HONEOYE	3	OZ/A	POST FALL	0	2	2	0	0
CHATEAU ITASCA	3	OZ/A	POST FALL	0	5	2	0	0
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	2	3	0	10	0
CHATEAU LAMOUR	3	OZ/A	POST FALL	2	3	0	2	0
CHATEAU OVATION	3	OZ/A	POST FALL	2	0	2	0	0
CHATEAU SENECA	3	OZ/A	POST FALL	0	3	2	10	0
CHATEAU ALLSTAR	6	OZ/A	POST FALL	0	7	10	17	0
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	0	2	0	17	0
CHATEAU CABOT	6	OZ/A	POST FALL	0	7	3	13	0

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE WITH CHATEAU APPLIED AFTER BED RENOVATION

Trial ID:STRCHATPOSTREN2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	LEAF CURL	THIN	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/24/07	7/24/07	7/24/07	7/24/07	8/8/07
Trt-Eval Interval				4WAT	4WAT	4WAT	4WAT	6WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
CHATEAU CAVENDISH	6	OZ/A	POST FALL	0	10	0	10	0
CHATEAU CLANCY	6	OZ/A	POST FALL	2	0	0	10	0
CHATEAU DARSELECT	6	OZ/A	POST FALL	0	8	2	15	0
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	3	3	8	15	0
CHATEAU EROS	6	OZ/A	POST FALL	2	2	5	32	0
CHATEAU HONEOYE	6	OZ/A	POST FALL	0	3	3	7	0
CHATEAU ITASCA	6	OZ/A	POST FALL	0	5	2	8	0
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	0	0	3	0	0
CHATEAU LAMOUR	6	OZ/A	POST FALL	0	7	0	10	0
CHATEAU OVATION	6	OZ/A	POST FALL	0	2	3	12	0
CHATEAU SENECA	6	OZ/A	POST FALL	0	5	0	7	0
LSD (P=.05)				2.4	5.8	6	13.2	0
Standard Deviation				1.5	3.5	3.7	8.1	0
CV				406.25	165.66	215.3	147.78	0

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE WITH CHATEAU APPLIED AFTER BED RENOVATION

Trial ID:STRCHATPOSTREN2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	LEAF CURL	THIN
Rating Unit				%	%	%	%
Rating Date				8/8/07	8/8/07	8/8/07	8/8/07
Trt-Eval Interval				6WAT	6WAT	6WAT	6WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14
CHATEAU ALLSTAR	3	OZ/A	POST FALL	0	0	0	18
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	0	15	0	12
CHATEAU CABOT	3	OZ/A	POST FALL	0	5	3	5
CHATEAU CAVENDISH	3	OZ/A	POST FALL	0	13	0	13
CHATEAU CLANCY	3	OZ/A	POST FALL	0	5	0	0
CHATEAU DARSELECT	3	OZ/A	POST FALL	0	3	0	13
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	0	0	0	0
CHATEAU EROS	3	OZ/A	POST FALL	0	0	0	0
CHATEAU HONEOYE	3	OZ/A	POST FALL	0	0	0	0
CHATEAU ITASCA	3	OZ/A	POST FALL	0	0	0	0
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	0	5	0	0
CHATEAU LAMOUR	3	OZ/A	POST FALL	0	0	0	0
CHATEAU OVATION	3	OZ/A	POST FALL	0	0	0	0
CHATEAU SENECA	3	OZ/A	POST FALL	0	0	0	5
CHATEAU ALLSTAR	6	OZ/A	POST FALL	0	13	7	17
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	0	18	0	27
CHATEAU CABOT	6	OZ/A	POST FALL	0	42	3	48

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE WITH CHATEAU APPLIED AFTER BED RENOVATION

Trial ID:STRCHATPOSTREN2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	LEAF CURL	THIN
Rating Unit				%	%	%	%
Rating Date				8/8/07	8/8/07	8/8/07	8/8/07
Trt-Eval Interval				6WAT	6WAT	6WAT	6WAT
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14
CHATEAU CAVENDISH	6	OZ/A	POST FALL	3	50	0	27
CHATEAU CLANCY	6	OZ/A	POST FALL	0	23	3	17
CHATEAU DARSELECT	6	OZ/A	POST FALL	0	3	0	20
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	0	0	0	5
CHATEAU EROS	6	OZ/A	POST FALL	0	10	0	5
CHATEAU HONEOYE	6	OZ/A	POST FALL	0	0	0	0
CHATEAU ITASCA	6	OZ/A	POST FALL	0	0	0	3
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	0	0	0	0
CHATEAU LAMOUR	6	OZ/A	POST FALL	0	0	0	5
CHATEAU OVATION	6	OZ/A	POST FALL	0	8	0	10
CHATEAU SENECA	6	OZ/A	POST FALL	0	0	0	7
LSD (P=.05)				1.5	12.8	3.8	17.1
Standard Deviation				0.9	7.8	2.4	10.5
CV				1122.5	153.05	593.97	171.84

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Trial Summary: The aim of this trial was to evaluate 14 strawberry varieties and their response to Chateau 51 WDG herbicide applied broadcast in the fall, (dormant before strawing), and in the spring (after straw removal) for crop injury and weed control. Fourteen commercial varieties were included; Allstar, Brunswick, Cabot, Clancy, Darselect, Earliglow Eros, Honeoye, Itasca, Jewel Straw, Lamour, Ovation, and Seneca. The fall spray was applied at 3 and 6 oz/A on 11/6/06. The spring spray was applied at 3 oz/A on 4/18/07, (after straw removal). Ratings for crop injury and weed control were taken at 1, 2, 4, and 8 weeks after straw removal. With the fall 3 oz/A rate, at 4 weeks after emergence (WAE), stunting ranged from 0% ("Ovation") to 27% ("Cabot"). At 8 WAE, there were no significant differences among the cultivars. With the fall 6 oz/A rate, at 4 WAE, stunting ranged from 0% ("Ovation") to 17% ("Darselect"). At 8WAE, "Clancy" was the only variety showing plant stunt (12%) and stand thinning (23%).The fall 6 oz/A application provided the best overall weed control. With the spring applications, At 4WAE, stunting ranged from 0% ("Eros") to 45% ("Cabot"), and the weed control was not as complete as the fall application. There was no significant varietal stunting at 8WAE. Chateau did not control dandelion at either timing. Yields were not taken.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 11/06/06
Planned Completion Date: 11/15/07

Objective: To evaluate Chateau applied in the fall and spring on strawberries for crop tolerance and weed control.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
	1 CAPBP	*shepherd's purse*
	2 CERVU	*mouseear chickweed*
	3 LAMPU	*purple deadnettle*
	4 OXAST	*yellow woodsorrel*
	5 POAAN	*annual bluegrass*
	6 RUMOB	*broadleaf dock*
	7 SENVU	*common groundsel*
	8 SINAR	*wild mustard*
	9 STEME	*common chickweed*
	10 TAROF	*dandelion*
	11 THLAR	*field pennycress*
	12 VERPG	*speedwell*
	13 RAPRA	*wild radish*
	14 POLAV	*prostrate knotweed*
	15 MATMT	*pineapple-weed*
	16 MOLVE	*carpetweed*

Crop 1: FRAAN STRAWBERRY Variety: 14 VARIETIES
Planting Date: 05/10/06 Planting Method: CONVENTIONAL
Rate: 1 PLANT PER 12 IN Depth: 2 IN
Row Spacing: 36 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 6 FT
Site Type: LEVEL FIELD
Tillage Type: CONVENTIONAL

Plot Length, Unit: 50 FT
Reps: 3
Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 11
% Silt: 75
% Clay: 14

% OM: 3.11
pH: 6.86
CEC: 14

Texture: SILT LOAM
Soil Name: WOOSTER SILT LOAM
Fert. Level: MODERATE

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

APPLICATION DESCRIPTION

	A	B
Application Date:	11/6/2006	4/18/2007
Time of Day:	11:30 AM	11AM-NOON
Application Method:	SPRAY	SPRAY
Application Timing:	POST FALL	PRE SPRING
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	54 F	51 F
% Relative Humidity:	55	49
Wind Velocity, Unit:	3 MPH	1.4 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	100	100

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	FRAAN, POST FALL	FRAAN, PRE SPRING
Stage Scale:	DORMANT	DORMANT
Height, Unit:	8 IN	8 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	CAPBP, POST FALL	CAPBP, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed 2 Code, Stage:	CERVU, POST FALL	CERVU, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed 3 Code, Stage:	LAMPU, POST FALL	LAMPU, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed 4 Code, Stage:	OXAST, POST FALL	OXAST, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed 5 Code, Stage:	POAAN, POST FALL	POAAN, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed 6 Code, Stage:	RUMOB, POST FALL	RUMOB, PRE SPRING
Stage Scale:	3 LF	.
Density, Unit:	LOW, PLOT	. .
Weed 7 Code, Stage:	SENVU, POST FALL	SENVU, PRE SPRING
Stage Scale:	9-14 LF	.
Density, Unit:	MEDIUM, PLOT	. .
Weed 8 Code, Stage:	SINAR, POST FALL	SINAR, PRE SPRING
Stage Scale:	6-10 LF	.
Density, Unit:	MEDIUM, PLOT	. .
Weed 9 Code, Stage:	STEME, POST FALL	STEME, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed10 Code, Stage:	TAROF, POST FALL	TAROF, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed11 Code, Stage:	THLAR, POST FALL	THLAR, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed12 Code, Stage:	VERPG, POST FALL	VERPG, PRE SPRING
Stage Scale:	4 LF	.
Density, Unit:	MEDIUM, PLOT	. .
Weed13 Code, Stage:	RAPRA, POST FALL	RAPRA, PRE SPRING
Stage Scale:	6-10 LF	.
Density, Unit:	MEDIUM, PLOT	. .

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Location: Wooster, Ohio

Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan

Weed14 Code, Stage:	POLAV, POST FALL	POLAV, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed15 Code, Stage:	MATMT, POST FALL	MATMT, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .
Weed16 Code, Stage:	MOLVE, POST FALL	MOLVE, PRE SPRING
Stage Scale:	.	.
Density, Unit:	. .	. .

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	4
Band Width, Unit:	6 FT	6 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS	BURN
Rating Data Type				%	%	%	%	%	%
Rating Unit				4/23/07	4/23/07	4/23/07	4/23/07	4/30/07	4/30/07
Rating Date				1WAE	1WAE	1WAE	1WAE	2WAE	2WAE
Trt-Eval Interval									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
CHATEAU ALLSTAR	3	OZ/A	POST FALL	1	0	33	0	0	0
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	0	0	30	0	0	0
CHATEAU CAVENDISH	3	OZ/A	POST FALL	1	0	7	0	0	3
CHATEAU CABOT	3	OZ/A	POST FALL	0	0	45	0	0	0
CHATEAU CLANCY	3	OZ/A	POS FALL	8	0	53	0	3	0
CHATEAU DARSELECT	3	OZ/A	POST FALL	1	0	25	0	0	18
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	0	0	82	0	0	0
CHATEAU EROS	3	OZ/A	POST FALL	5	0	27	0	2	3
CHATEAU HONEOYE	3	OZ/A	POST FALL	0	0	32	0	0	3
CHATEAU ITASCA	3	OZ/A	POST FALL	0	0	17	0	0	10
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	0	0	45	0	0	0
CHATEAU LAMOUR	3	OZ/A	POST FALL	0	0	23	0	0	13
CHATEAU OVATION	3	OZ/A	POST FALL	0	0	0	0	0	0
CHATEAU SENECA	3	OZ/A	POST FALL	0	0	0	0	0	0
CHATEAU ALLSTAR	6	OZ/A	POST FALL	2	0	17	0	0	0
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	0	0	10	0	1	0
CHATEAU CAVENDISH	6	OZ/A	POST FALL	0	0	23	0	0	0

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code											
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				4/23/07	4/23/07	4/23/07	4/23/07	4/30/07	4/30/07
Trt-Eval Interval				1WAE	1WAE	1WAE	1WAE	2WAE	2WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
CHATEAU CABOT	6	OZ/A	POST FALL	0	0	23	0	0	0
CHATEAU CLANCY	6	OZ/A	POST FALL	5	0	45	0	0	0
CHATEAU DARSELECT	6	OZ/A	POST FALL	9	0	28	0	0	0
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	0	0	62	0	0	0
CHATEAU EROS	6	OZ/A	POST FALL	12	0	37	0	10	0
CHATEAU HONEOYE	6	OZ/A	POST FALL	0	0	17	0	0	0
CHATEAU ITASCA	6	OZ/A	POST FALL	4	0	17	0	0	18
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	0	0	37	0	0	0
CHATEAU LAMOUR	6	OZ/A	POST FALL	0	0	43	8	0	13
CHATEAU OVATION	6	OZ/A	POST FALL	0	0	7	0	0	0
CHATEAU SENECA	6	OZ/A	POST FALL	1	0	0	0	0	0
CHATEAU ALLSTAR	3	OZ/A	PRE SPRING	7	0	0	0	0	47
CHATEAU BRUNSWICK	3	OZ/A	PRE SPRING	2	0	23	0	0	37
CHATEAU CAVENDISH	3	OZ/A	PRE SPRING	1	0	32	3	0	50
CHATEAU CABOT	3	OZ/A	PRE SPRING	2	0	17	0	0	25
CHATEAU CLANCY	3	OZ/A	PRE SPRING	8	0	57	0	0	13
CHATEAU DARSELECT	3	OZ/A	PRE SPRING	11	0	62	0	0	38

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				CHLOROSIS	BURN	STUNT	LEAF CURL	CHLOROSIS	BURN
Rating Data Type				%	%	%	%	%	%
Rating Unit				4/23/07	4/23/07	4/23/07	4/23/07	4/30/07	4/30/07
Rating Date				1WAE	1WAE	1WAE	1WAE	2WAE	2WAE
Trt-Eval Interval									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
CHATEAU EARLIGLOW	3	OZ/A	PRE SPRING	0	0	50	20	0	62
CHATEAU EROS	3	OZ/A	PRE SPRING	10	0	7	0	0	50
CHATEAU HONEOYE	3	OZ/A	PRE SPRING	1	0	0	0	0	47
CHATEAU ITASCA	3	OZ/A	PRE SPRING	7	0	40	0	0	63
CHATEAU JEWEL STRAW	3	OZ/A	PRE SPRING	0	0	28	0	0	30
CHATEAU LAMOUR	3	OZ/A	PRE SPRING	0	0	17	10	0	58
CHATEAU OVATION	3	OZ/A	PRE SPRING	1	0	20	0	0	25
CHATEAU SENECA	3	OZ/A	PRE SPRING	1	0	27	0	0	60
LSD (P=.05)				5.3	0	39.5	6.6	2.1	15.1
Standard Deviation				3.3	0	24.4	4.1	1.3	9.4
CV				188.09	0	117.86	549.18	464.08	76.14

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code										
Crop Code				FRAAN	FRAAN	FRAAN	POANN FRAAN	TAROF FRAAN	LAMPU FRAAN	
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED	
Rating Data Type				STUNT	LEAF CURL	STAND THIN	CONTROL	CONTROL	CONTROL	
Rating Unit				%	%	%	%	%	%	
Rating Date				4/30/07	4/30/07	4/30/07	4/30/07	4/30/07	4/30/07	
Trt-Eval Interval				2WAE	2WAE	2WAE	2WAE	2WAE	2WAE	
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12	
CHATEAU ALLSTAR	3	OZ/A	POST FALL	13	0	43	0	0	100	
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	12	0	28	0	0	100	
CHATEAU CAVENDISH	3	OZ/A	POST FALL	5	3	13	0	0	100	
CHATEAU CABOT	3	OZ/A	POST FALL	52	0	45	0	0	100	
CHATEAU CLANCY	3	OZ/A	POS FALL	17	0	33	0	0	100	
CHATEAU DARSELECT	3	OZ/A	POST FALL	33	17	17	0	0	100	
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	25	3	37	0	0	100	
CHATEAU EROS	3	OZ/A	POST FALL	22	3	20	0	0	100	
CHATEAU HONEOYE	3	OZ/A	POST FALL	33	3	30	0	0	100	
CHATEAU ITASCA	3	OZ/A	POST FALL	10	3	13	0	0	100	
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	5	0	38	0	0	100	
CHATEAU LAMOUR	3	OZ/A	POST FALL	30	12	40	0	0	100	
CHATEAU OVATION	3	OZ/A	POST FALL	0	0	0	0	0	100	
CHATEAU SENECA	3	OZ/A	POST FALL	0	0	0	0	0	100	
CHATEAU ALLSTAR	6	OZ/A	POST FALL	5	0	30	100	0	100	
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	0	0	0	100	0	100	
CHATEAU CAVENDISH	6	OZ/A	POST FALL	5	3	13	100	0	100	

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				FRAAN	FRAAN	FRAAN	POANN	TAROF	LAMPU
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				STUNT	LEAF CURL	STAND THIN	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				4/30/07	4/30/07	4/30/07	4/30/07	4/30/07	4/30/07
Trt-Eval Interval				2WAE	2WAE	2WAE	2WAE	2WAE	2WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
CHATEAU CABOT	6	OZ/A	POST FALL	43	3	23	100	0	100
CHATEAU CLANCY	6	OZ/A	POST FALL	38	0	38	100	0	100
CHATEAU DARSELECT	6	OZ/A	POST FALL	18	0	48	100	0	100
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	58	0	42	100	0	100
CHATEAU EROS	6	OZ/A	POST FALL	27	3	33	100	0	100
CHATEAU HONEOYE	6	OZ/A	POST FALL	18	0	25	100	0	100
CHATEAU ITASCA	6	OZ/A	POST FALL	28	10	17	100	0	100
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	23	0	30	100	0	100
CHATEAU LAMOUR	6	OZ/A	POST FALL	30	10	30	100	0	100
CHATEAU OVATION	6	OZ/A	POST FALL	17	0	17	100	0	100
CHATEAU SENECA	6	OZ/A	POST FALL	10	0	7	100	0	100
CHATEAU ALLSTAR	3	OZ/A	PRE SPRING	40	3	27	0	0	82
CHATEAU BRUNSWICK	3	OZ/A	PRE SPRING	47	15	23	0	0	82
CHATEAU CAVENDISH	3	OZ/A	PRE SPRING	50	40	0	0	0	82
CHATEAU CABOT	3	OZ/A	PRE SPRING	27	8	17	0	0	82
CHATEAU CLANCY	3	OZ/A	PRE SPRING	13	12	30	0	0	82
CHATEAU DARSELECT	3	OZ/A	PRE SPRING	47	23	17	0	0	82

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WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				FRAAN	FRAAN	FRAAN	POANN	TAROF	LAMPU
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				STUNT	LEAF CURL	STAND THIN	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				4/30/07	4/30/07	4/30/07	4/30/07	4/30/07	4/30/07
Trt-Eval Interval				2WAE	2WAE	2WAE	2WAE	2WAE	2WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
CHATEAU EARLIGLOW	3	OZ/A	PRE SPRING	70	52	20	0	0	82
CHATEAU EROS	3	OZ/A	PRE SPRING	32	35	10	0	0	82
CHATEAU HONEOYE	3	OZ/A	PRE SPRING	32	17	0	0	0	82
CHATEAU ITASCA	3	OZ/A	PRE SPRING	50	40	25	0	0	82
CHATEAU JEWEL STRAW	3	OZ/A	PRE SPRING	47	20	50	0	0	82
CHATEAU LAMOUR	3	OZ/A	PRE SPRING	38	58	17	0	0	82
CHATEAU OVATION	3	OZ/A	PRE SPRING	30	23	10	0	0	82
CHATEAU SENECA	3	OZ/A	PRE SPRING	45	22	17	0	0	82
LSD (P=.05)				25.8	17.6	40.6	0	0	2
Standard Deviation				15.9	10.9	25.1	0	0	1.3
CV				77.97	134.85	144.44	0	0	1.79

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				RUMOB	VERPG	SINAR	OXAST	THLAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/30/07	4/30/07	4/30/07	4/30/07	4/30/07
Trt-Eval Interval				2WAE	2WAE	2WAE	2WAE	2WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
CHATEAU ALLSTAR	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU CAVENDISH	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU CABOT	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU CLANCY	3	OZ/A	POS FALL	28	100	100	100	0
CHATEAU DARSELECT	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU EROS	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU HONEOYE	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU ITASCA	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU LAMOUR	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU OVATION	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU SENECA	3	OZ/A	POST FALL	28	100	100	100	0
CHATEAU ALLSTAR	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU CAVENDISH	6	OZ/A	POST FALL	38	100	100	100	100

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Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				RUMOB	VERPG	SINAR	OXAST	THLAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/30/07	4/30/07	4/30/07	4/30/07	4/30/07
Trt-Eval Interval				2WAE	2WAE	2WAE	2WAE	2WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
CHATEAU CABOT	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU CLANCY	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU DARSELECT	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU EROS	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU HONEOYE	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU ITASCA	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU LAMOUR	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU OVATION	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU SENECA	6	OZ/A	POST FALL	38	100	100	100	100
CHATEAU ALLSTAR	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU BRUNSWICK	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU CAVENDISH	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU CABOT	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU CLANCY	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU DARSELECT	3	OZ/A	PRE SPRING	0	92	82		0

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				RUMOB	VERPG	SINAR	OXAST	THLAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				4/30/07	4/30/07	4/30/07	4/30/07	4/30/07
Trt-Eval Interval				2WAE	2WAE	2WAE	2WAE	2WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
CHATEAU EARLIGLOW	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU EROS	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU HONEOYE	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU ITASCA	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU JEWEL STRAW	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU LAMOUR	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU OVATION	3	OZ/A	PRE SPRING	0	92	82		0
CHATEAU SENECA	3	OZ/A	PRE SPRING	0	92	82		0
LSD (P=.05)				3.1	2	2	0	0
Standard Deviation				1.9	1.3	1.3	0	0
CV				11.56	1.73	1.79	0	0

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				MATMT					POANN
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	BURN	STUNT	LEAF CURL	STAND THIN	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				4/30/07	5/14/07	5/14/07	5/14/07	5/14/07	5/14/07
Trt-Eval Interval				2WAE	4 WAE	4 WAE	4 WAE	4 WAE	4 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
CHATEAU ALLSTAR	3	OZ/A	POST FALL	100	0	3	0	20	100
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	100	0	5	0	30	100
CHATEAU CAVENDISH	3	OZ/A	POST FALL	100	0	3	0	5	100
CHATEAU CABOT	3	OZ/A	POST FALL	100	0	27	0	10	100
CHATEAU CLANCY	3	OZ/A	POS FALL	100	0	17	0	0	100
CHATEAU DARSELECT	3	OZ/A	POST FALL	100	0	8	0	5	100
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	100	0	0	0	0	100
CHATEAU EROS	3	OZ/A	POST FALL	100	0	0	0	0	100
CHATEAU HONEOYE	3	OZ/A	POST FALL	100	0	8	0	10	100
CHATEAU ITASCA	3	OZ/A	POST FALL	100	0	0	0	0	100
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	100	0	2	0	17	100
CHATEAU LAMOUR	3	OZ/A	POST FALL	100	0	5	0	0	100
CHATEAU OVATION	3	OZ/A	POST FALL	100	0	0	0	0	100
CHATEAU SENECA	3	OZ/A	POST FALL	100	0	0	0	0	100
CHATEAU ALLSTAR	6	OZ/A	POST FALL	100	0	8	5	10	100
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	100	0	0	3	0	100
CHATEAU CAVENDISH	6	OZ/A	POST FALL	100	0	0	0	0	100

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STRAWBERRY - CULTIVAR TOLERANCE
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Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				MATMT					POANN
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	BURN	STUNT	LEAF CURL	STAND THIN	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				4/30/07	5/14/07	5/14/07	5/14/07	5/14/07	5/14/07
Trt-Eval Interval				2WAE	4 WAE	4 WAE	4 WAE	4 WAE	4 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
CHATEAU CABOT	6	OZ/A	POST FALL	100	0	13	0	13	100
CHATEAU CLANCY	6	OZ/A	POST FALL	100	0	8	0	0	100
CHATEAU DARSELECT	6	OZ/A	POST FALL	100	0	17	3	20	100
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	100	0	5	0	17	100
CHATEAU EROS	6	OZ/A	POST FALL	100	0	0	0	5	100
CHATEAU HONEOYE	6	OZ/A	POST FALL	100	0	0	0	5	100
CHATEAU ITASCA	6	OZ/A	POST FALL	100	0	3	3	10	100
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	100	0	10	0	22	100
CHATEAU LAMOUR	6	OZ/A	POST FALL	100	0	10	0	20	100
CHATEAU OVATION	6	OZ/A	POST FALL	100	0	8	0	0	100
CHATEAU SENECA	6	OZ/A	POST FALL	100	0	0	3	0	100
CHATEAU ALLSTAR	3	OZ/A	PRE SPRING	0	0	20	23	20	100
CHATEAU BRUNSWICK	3	OZ/A	PRE SPRING	0	0	12	10	17	100
CHATEAU CAVENDISH	3	OZ/A	PRE SPRING	0	0	10	12	17	100
CHATEAU CABOT	3	OZ/A	PRE SPRING	0	0	45	25	20	100
CHATEAU CLANCY	3	OZ/A	PRE SPRING	0	0	10	0	13	100
CHATEAU DARSELECT	3	OZ/A	PRE SPRING	0	0	7	8	18	100

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Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				MATMT					POANN
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	BURN	STUNT	LEAF CURL	STAND THIN	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				4/30/07	5/14/07	5/14/07	5/14/07	5/14/07	5/14/07
Trt-Eval Interval				2WAE	4 WAE	4 WAE	4 WAE	4 WAE	4 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
CHATEAU EARLIGLOW	3	OZ/A	PRE SPRING	0	0	18	20	20	100
CHATEAU EROS	3	OZ/A	PRE SPRING	0	0	0	22	0	100
CHATEAU HONEOYE	3	OZ/A	PRE SPRING	0	0	2	27	0	100
CHATEAU ITASCA	3	OZ/A	PRE SPRING	0	0	18	27	23	100
CHATEAU JEWEL STRAW	3	OZ/A	PRE SPRING	0	3	3	17	20	100
CHATEAU LAMOUR	3	OZ/A	PRE SPRING	0	0	8	37	10	100
CHATEAU OVATION	3	OZ/A	PRE SPRING	0	0	2	3	0	100
CHATEAU SENECA	3	OZ/A	PRE SPRING	0	0	10	17	13	100
LSD (P=.05)				0	1.2	17.5	10.5	22.3	0
Standard Deviation				0	0.8	10.8	6.5	13.8	0
CV				0	1296.15	185.48	137.43	188.78	0

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	LAMPU	RUMOB	VERPG	SINAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/14/07	5/14/07	5/14/07	5/14/07	5/14/07
Trt-Eval Interval				4 WAE	4 WAE	4 WAE	4 WAE	4 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
CHATEAU ALLSTAR	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU CAVENDISH	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU CABOT	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU CLANCY	3	OZ/A	POS FALL	0	100	50	100	97
CHATEAU DARSELECT	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU EROS	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU HONEOYE	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU ITASCA	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU LAMOUR	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU OVATION	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU SENECA	3	OZ/A	POST FALL	0	100	50	100	97
CHATEAU ALLSTAR	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU CAVENDISH	6	OZ/A	POST FALL	0	100	50	100	100

The Ohio State University

STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	LAMPU	RUMOB	VERPG	SINAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/14/07	5/14/07	5/14/07	5/14/07	5/14/07
Trt-Eval Interval				4 WAE	4 WAE	4 WAE	4 WAE	4 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
CHATEAU CABOT	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU CLANCY	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU DARSELECT	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU EROS	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU HONEOYE	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU ITASCA	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU LAMOUR	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU OVATION	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU SENECA	6	OZ/A	POST FALL	0	100	50	100	100
CHATEAU ALLSTAR	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU BRUNSWICK	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU CAVENDISH	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU CABOT	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU CLANCY	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU DARSELECT	3	OZ/A	PRE SPRING	0	100	50	100	40

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	LAMPU	RUMOB	VERPG	SINAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/14/07	5/14/07	5/14/07	5/14/07	5/14/07
Trt-Eval Interval				4 WAE	4 WAE	4 WAE	4 WAE	4 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
CHATEAU EARLIGLOW	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU EROS	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU HONEOYE	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU ITASCA	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU JEWEL STRAW	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU LAMOUR	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU OVATION	3	OZ/A	PRE SPRING	0	100	50	100	40
CHATEAU SENECA	3	OZ/A	PRE SPRING	0	100	50	100	40
LSD (P=.05)				0	0	0	0	7.4
Standard Deviation				0	0	0	0	4.5
CV				0	0	0	0	7.69

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				OXAST	THLAR	MATMT		
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT	STAND THIN
Rating Unit				%	%	%	%	%
Rating Date				5/14/07	5/14/07	5/14/07	6/14/07	6/14/07
Trt-Eval Interval				4 WAE	4 WAE	4 WAE	8 WAE	8 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	29	30	31	32	33
CHATEAU ALLSTAR	3	OZ/A	POST FALL	100	100	100	2	8
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	100	100	100	2	3
CHATEAU CAVENDISH	3	OZ/A	POST FALL	100	100	100	2	5
CHATEAU CABOT	3	OZ/A	POST FALL	100	100	100	0	2
CHATEAU CLANCY	3	OZ/A	POS FALL	100	100	100	3	5
CHATEAU DARSELECT	3	OZ/A	POST FALL	100	100	100	2	2
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	100	100	100	0	3
CHATEAU EROS	3	OZ/A	POST FALL	100	100	100	0	2
CHATEAU HONEOYE	3	OZ/A	POST FALL	100	100	100	0	0
CHATEAU ITASCA	3	OZ/A	POST FALL	100	100	100	0	5
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	100	100	100	0	7
CHATEAU LAMOUR	3	OZ/A	POST FALL	100	100	100	2	0
CHATEAU OVATION	3	OZ/A	POST FALL	100	100	100	0	0
CHATEAU SENECA	3	OZ/A	POST FALL	100	100	100	0	0
CHATEAU ALLSTAR	6	OZ/A	POST FALL	100	100	100	3	5
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	100	100	100	0	2
CHATEAU CAVENDISH	6	OZ/A	POST FALL	100	100	100	2	5

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Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				OXAST	THLAR	MATMT		
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT	STAND THIN
Rating Unit				%	%	%	%	%
Rating Date				5/14/07	5/14/07	5/14/07	6/14/07	6/14/07
Trt-Eval Interval				4 WAE	4 WAE	4 WAE	8 WAE	8 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	29	30	31	32	33
CHATEAU CABOT	6	OZ/A	POST FALL	100	100	100	3	10
CHATEAU CLANCY	6	OZ/A	POST FALL	100	100	100	12	23
CHATEAU DARSELECT	6	OZ/A	POST FALL	100	100	100	2	2
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	100	100	100	2	8
CHATEAU EROS	6	OZ/A	POST FALL	100	100	100	0	2
CHATEAU HONEOYE	6	OZ/A	POST FALL	100	100	100	0	2
CHATEAU ITASCA	6	OZ/A	POST FALL	100	100	100	0	0
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	100	100	100	0	5
CHATEAU LAMOUR	6	OZ/A	POST FALL	100	100	100	0	0
CHATEAU OVATION	6	OZ/A	POST FALL	100	100	100	0	0
CHATEAU SENECA	6	OZ/A	POST FALL	100	100	100	0	0
CHATEAU ALLSTAR	3	OZ/A	PRE SPRING	100	100	100	0	5
CHATEAU BRUNSWICK	3	OZ/A	PRE SPRING	100	100	100	0	8
CHATEAU CAVENDISH	3	OZ/A	PRE SPRING	100	100	100	3	7
CHATEAU CABOT	3	OZ/A	PRE SPRING	100	100	100	2	7
CHATEAU CLANCY	3	OZ/A	PRE SPRING	100	100	100	2	5
CHATEAU DARSELECT	3	OZ/A	PRE SPRING	100	100	100	0	3

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Trial ID: STRCTOLCHAT2007
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Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				OXAST	THLAR	MATMT		
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT	STAND THIN
Rating Unit				%	%	%	%	%
Rating Date				5/14/07	5/14/07	5/14/07	6/14/07	6/14/07
Trt-Eval Interval				4 WAE	4 WAE	4 WAE	8 WAE	8 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	29	30	31	32	33
CHATEAU EARLIGLOW	3	OZ/A	PRE SPRING	100	100	100	0	3
CHATEAU EROS	3	OZ/A	PRE SPRING	100	100	100	0	0
CHATEAU HONEOYE	3	OZ/A	PRE SPRING	100	100	100	0	2
CHATEAU ITASCA	3	OZ/A	PRE SPRING	100	100	100	0	3
CHATEAU JEWEL STRAW	3	OZ/A	PRE SPRING	100	100	100	2	2
CHATEAU LAMOUR	3	OZ/A	PRE SPRING	100	100	100	0	2
CHATEAU OVATION	3	OZ/A	PRE SPRING	100	100	100	0	0
CHATEAU SENECA	3	OZ/A	PRE SPRING	100	100	100	0	3
LSD (P=.05)				0	0	0	4.5	8.1
Standard Deviation				0	0	0	2.8	5
CV				0	0	0	355.89	181.77

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POANN	MOLVE	TAROF	LAMPU	RUMOB	POLAV
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	34	35	36	37	38	39
CHATEAU ALLSTAR	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU CAVENDISH	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU CABOT	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU CLANCY	3	OZ/A	POS FALL	68	99	0	99	83	99
CHATEAU DARSELECT	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU EROS	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU HONEOYE	3	OZ/A	POST FALL	68	96	0	99	83	99
CHATEAU ITASCA	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU LAMOUR	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU OVATION	3	OZ/A	POST FALL	68	99	0	99	83	99
CHATEAU SENECA	3	OZ/A	POST FALL	68	66	0	99	83	99
CHATEAU ALLSTAR	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU CAVENDISH	6	OZ/A	POST FALL	77	99	0	99	47	99

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WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POANN	MOLVE	TAROF	LAMPU	RUMOB	POLAV
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	34	35	36	37	38	39
CHATEAU CABOT	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU CLANCY	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU DARSELECT	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU EROS	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU HONEOYE	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU ITASCA	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU LAMOUR	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU OVATION	6	OZ/A	POST FALL	73	99	0	99	47	99
CHATEAU SENECA	6	OZ/A	POST FALL	77	99	0	99	47	99
CHATEAU ALLSTAR	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU BRUNSWICK	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU CAVENDISH	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU CABOT	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU CLANCY	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU DARSELECT	3	OZ/A	PRE SPRING	52	99	0	99	43	99

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Trial ID: STRCTOLCHAT2007
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Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POANN	MOLVE	TAROF	LAMPU	RUMOB	POLAV
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	34	35	36	37	38	39
CHATEAU EARLIGLOW	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU EROS	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU HONEOYE	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU ITASCA	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU JEWEL STRAW	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU LAMOUR	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU OVATION	3	OZ/A	PRE SPRING	52	99	0	99	43	99
CHATEAU SENECA	3	OZ/A	PRE SPRING	52	99	0	99	43	99
LSD (P=.05)				5.7	12.4	0	0	22.6	0
Standard Deviation				3.5	7.7	0	0	13.9	0
CV				7.15	10.43	0	0	32.31	0

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STRAWBERRY - CULTIVAR TOLERANCE
WITH CHATEAU APPLIED DURING DORMANCY

Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SINAR	OXAST	THLAR	MATMT	CAPBP	VERPG
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	40	41	42	43	44	45
CHATEAU ALLSTAR	3	OZ/A	POST FALL	99	90	99	99	99	99
CHATEAU BRUNSWICK	3	OZ/A	POST FALL	99	90	99	99	99	99
CHATEAU CAVENDISH	3	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU CABOT	3	OZ/A	POST FALL	99	90	99	99	99	99
CHATEAU CLANCY	3	OZ/A	POS FALL	99	90	99	99	99	99
CHATEAU DARSELECT	3	OZ/A	POST FALL	81	90	99	99	99	99
CHATEAU EARLIGLOW	3	OZ/A	POST FALL	33	90	99	99	99	99
CHATEAU EROS	3	OZ/A	POST FALL	86	90	99	99	99	99
CHATEAU HONEOYE	3	OZ/A	POST FALL	99	90	99	99	99	99
CHATEAU ITASCA	3	OZ/A	POST FALL	99	90	99	99	99	99
CHATEAU JEWEL STRAW	3	OZ/A	POST FALL	99	90	99	99	99	99
CHATEAU LAMOUR	3	OZ/A	POST FALL	99	90	99	99	99	99
CHATEAU OVATION	3	OZ/A	POST FALL	99	90	99	99	99	99
CHATEAU SENECA	3	OZ/A	POST FALL	99	90	99	99	99	99
CHATEAU ALLSTAR	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU BRUNSWICK	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU CAVENDISH	6	OZ/A	POST FALL	99	83	99	99	99	99

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Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SINAR	OXAST	THLAR	MATMT	CAPBP	VERPG
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	40	41	42	43	44	45
CHATEAU CABOT	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU CLANCY	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU DARSELECT	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU EARLIGLOW	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU EROS	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU HONEOYE	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU ITASCA	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU JEWEL STRAW	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU LAMOUR	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU OVATION	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU SENECA	6	OZ/A	POST FALL	99	83	99	99	99	99
CHATEAU ALLSTAR	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU BRUNSWICK	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU CAVENDISH	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU CABOT	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU CLANCY	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU DARSELECT	3	OZ/A	PRE SPRING	65	85	99	99	99	53

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Trial ID: STRCTOLCHAT2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				SINAR	OXAST	THLAR	MATMT	CAPBP	VERPG
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	40	41	42	43	44	45
CHATEAU EARLIGLOW	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU EROS	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU HONEOYE	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU ITASCA	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU JEWEL STRAW	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU LAMOUR	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU OVATION	3	OZ/A	PRE SPRING	65	85	99	99	99	53
CHATEAU SENECA	3	OZ/A	PRE SPRING	65	85	99	99	99	53
LSD (P=.05)				13.9	5.5	0	0	0	4.1
Standard Deviation				8.6	3.4	0	0	0	2.5
CV				13.47	5.29	0	0	0	4.01

The Ohio State University

STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR

Trial ID: STRSOMSIN07 Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio Investigator: Doug Doohan

Trial Summary: Sinbar at 1.5, 3, and 6 oz/A was applied broadcast posttransplant (POSTTP) to strawberry varieties Brunswick, Cabot, Darselect, Evangeline, Honeoye and Jewel on 5/5/06. Overall weed control was best with the 6 oz/A rate. At 8 weeks after treatment (WAT), no injury was observed on any treatment. At 3 WAT, injury was noted on Brunswick (15%) and Cabot (22%) with the 6 oz/A rate of Sinbar. Plots were harvested from 6/1 to 6/11/07. Sinbar at 6 oz/A significantly increased yield over the control.

TRIAL LOCATION

City: Wooster Trial Status: Final
State/Prov.: Ohio Initiation Date: 05/05/06
Postal Code: 44691 Planned Completion Date: 08/30/07
Country: USA

Objective: Evaluate differential response to Sinbar of the most popular cultivars currently planted in Ohio.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	ABUTH	velvetleaf	*Abutilon theophrasti Medicus*
2	AGRASS	annual grasses (various)	*Setaria spp.and Digitaria spp.*
3	AMAXX	pigweed spp.	*Amaranthus spp.*
4	CHEAL	common lambsquarter	*Chenopodium album L.*
5	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
6	POROL	common purslane	*Portulaca oleracea L.*
7	SOLPT	Eastern black nightshade	*Solanum ptycanthum Dun.*

Crop 1: FRAAN STRAWBERRY Variety: 6 VARIETIES
Planting Date: 05/05/06 Planting Method: HAND PLANTED
Rate: 1 PER 12 IN Depth: 2 IN
Row Spacing: 38 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 45 FT
Site Type: LEVEL FIELD Reps: 3
Tillage Type: CONVENTIONAL Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 70 % OM: 2.9 Texture: FINE SANDY LOAM
% Silt: 20 pH: 5.9 Soil Name: COLWOOD FINE SANDY LOAM
% Clay: 10 CEC: 11.3 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	5/5/2006
Time of Day:	1-2 PM
Application Method:	SPRAY
Application Timing:	POSTTP
Applic. Placement:	BROADCAST
Air Temp., Unit:	68.1 F
% Relative Humidity:	44
Wind Velocity, Unit:	10.0 MPH
% Cloud Cover:	75

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Trial ID: STRSOMSIN07 Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FRAAN, POSTTP
Stage Scale:	TRANSPLANT
Height, Unit:	2 IN

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	ABUTH, POSTTP
Stage Scale:	.
Density, Unit:	. .
Weed 2 Code, Stage:	AGRASS, POSTTP
Stage Scale:	.
Density, Unit:	. .
Weed 3 Code, Stage:	AMAXX, POSTTP
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	CHEAL, POSTTP
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	POLPY, POSTTP
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	POROL, POSTTP
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	SOLPT, POSTTP
Stage Scale:	.
Density, Unit:	. .

APPLICATION EQUIPMENT

	A
Appl. Equipment:	TRACTOR
Operating Pressure:	30
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	15IN
Nozzles/Row:	4
Band Width, Unit:	5 FT
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Spray Volume, Unit:	23.9 GPA

The Ohio State University

STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR

Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				5/15/06	5/15/06	5/22/06	5/22/06	5/30/06
Trt-Eval Interval				1 WAT	1 WAT	2 WAT	2 WAT	3 WAT
Spray Timing				POSTTP	POSTTP	POSTTP	POSTTP	POSTTP
UNTREATED CONTROL BRUNSWICK				0	0	0	0	0
UNTREATED CONTROL CABOT				0	0	0	0	0
UNTREATED CONTROL DARSELECT				0	0	0	0	0
UNTREATED CONTROL EVANGELINE				0	0	0	0	0
UNTREATED CONTROL HONEOYE				0	0	0	0	0
CONTROL JEWEL				0	0	0	0	0
SINBAR BRUNSWICK	1.5	OZ/A	POSTTP	0	0	0	0	0
SINBAR CABOT	1.5	OZ/A	POSTTP	0	0	0	0	0
SINBAR DARSELECT	1.5	OZ/A	POSTTP	0	0	0	0	10
SINBAR EVANGELINE	1.5	OZ/A	POSTTP	0	2	0	0	0
SINBAR HONEOYE	1.5	OZ/A	POSTTP	0	2	0	0	0
SINBAR JEWEL	1.5	OZ/A	POSTTP	0	0	0	0	0
SINBAR BRUNSWICK	3	OZ/A	POSTTP	0	0	0	0	8
SINBAR CABOT	3	OZ/A	POSTTP	0	0	0	0	0
SINBAR DARSELECT	3	OZ/A	POSTTP	0	0	0	0	0
SINBAR EVANGELINE	3	OZ/A	POSTTP	3	5	0	0	3
SINBAR HONEOYE	3	OZ/A	POSTTP	0	7	5	0	5

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Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				STUNT	CHLOROSIS	STUNT	CHLOROSIS	STUNT
Rating Data Type				%	%	%	%	%
Rating Unit				5/15/06	5/15/06	5/22/06	5/22/06	5/30/06
Rating Date				1 WAT	1 WAT	2 WAT	2 WAT	3 WAT
Trt-Eval Interval				POSTTP	POSTTP	POSTTP	POSTTP	POSTTP
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
SINBAR JEWEL	3	OZ/A	POSTTP	3	0	8	0	12
SINBAR BRUNSWICK	6	OZ/A	POSTTP	0	0	5	0	15
SINBAR CABOT	6	OZ/A	POSTTP	0	0	7	0	22
SINBAR DARSELECT	6	OZ/A	POSTTP	0	0	8	0	7
SINBAR EVANGELINE	6	OZ/A	POSTTP	3	7	8	0	7
SINBAR HONEOYE	6	OZ/A	POSTTP	0	2	10	0	8
SINBAR JEWEL	6	OZ/A	POSTTP	0	0	10	0	8
LSD (P=.05)				3.4	3.8	11.7	0	13.6
Standard Deviation				2	2.3	7.1	0	8.2
CV				489.9	238.45	276.15	0	188.21

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Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code					AGRASS	SOLPT	CHEAL	AMAXX
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/30/06	5/30/06	5/30/06	5/30/06	5/30/06
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POSTTP	POSTTP	POSTTP	POSTTP	POSTTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
UNTREATED CONTROL BRUNSWICK				0	0	0	0	0
UNTREATED CONTROL CABOT				0	0	0	0	0
UNTREATED CONTROL DARSELECT				0	0	0	0	0
UNTREATED CONTROL EVANGELINE				0	0	0	0	0
UNTREATED CONTROL HONEOYE				0	0	0	0	0
CONTROL JEWEL				0	0	0	0	0
SINBAR BRUNSWICK	1.5	OZ/A	POSTTP	0	0	0	0	0
SINBAR CABOT	1.5	OZ/A	POSTTP	0	0	0	0	0
SINBAR DARSELECT	1.5	OZ/A	POSTTP	0	0	0	0	0
SINBAR EVANGELINE	1.5	OZ/A	POSTTP	0	0	0	0	0
SINBAR HONEOYE	1.5	OZ/A	POSTTP	0	0	0	0	0
SINBAR JEWEL	1.5	OZ/A	POSTTP	3	0	0	0	0
SINBAR BRUNSWICK	3	OZ/A	POSTTP	0	92	99	99	99
SINBAR CABOT	3	OZ/A	POSTTP	0	90	99	99	99
SINBAR DARSELECT	3	OZ/A	POSTTP	0	92	99	99	99
SINBAR EVANGELINE	3	OZ/A	POSTTP	0	95	99	99	99
SINBAR HONEOYE	3	OZ/A	POSTTP	3	93	99	99	99

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Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code					AGRASS	SOLPT	CHEAL	AMAXX
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/30/06	5/30/06	5/30/06	5/30/06	5/30/06
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POSTTP	POSTTP	POSTTP	POSTTP	POSTTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10
SINBAR JEWEL	3	OZ/A	POSTTP	0	89	98	98	98
SINBAR BRUNSWICK	6	OZ/A	POSTTP	0	95	99	99	99
SINBAR CABOT	6	OZ/A	POSTTP	13	96	99	99	99
SINBAR DARSELECT	6	OZ/A	POSTTP	5	96	99	99	99
SINBAR EVANGELINE	6	OZ/A	POSTTP	0	96	99	99	99
SINBAR HONEOYE	6	OZ/A	POSTTP	5	96	99	99	99
SINBAR JEWEL	6	OZ/A	POSTTP	8	97	99	99	99
LSD (P=.05)				10.4	25.9	0.8	0.8	0.8
Standard Deviation				6.3	15.7	0.5	0.5	0.5
CV				393.83	31.72	0.95	0.95	0.95

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Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				POLPY	POROL	ABUTH		
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				5/30/06	5/30/06	5/30/06	6/20/06	6/20/06
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT
Spray Timing				POSTTP	POSTTP	POSTTP	POSTTP	POSTTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
UNTREATED CONTROL BRUNSWICK				0	0	0	0	0
UNTREATED CONTROL CABOT				0	0	0	0	0
UNTREATED CONTROL DARSELECT				0	0	0	0	0
UNTREATED CONTROL EVANGELINE				0	0	0	0	0
UNTREATED CONTROL HONEOYE				0	0	0	0	0
CONTROL JEWEL				0	0	0	0	0
SINBAR BRUNSWICK	1.5	OZ/A	POSTTP	0	67	0	0	0
SINBAR CABOT	1.5	OZ/A	POSTTP	0	65	0	0	0
SINBAR DARSELECT	1.5	OZ/A	POSTTP	0	72	0	0	0
SINBAR EVANGELINE	1.5	OZ/A	POSTTP	0	63	0	0	0
SINBAR HONEOYE	1.5	OZ/A	POSTTP	0	70	0	0	0
SINBAR JEWEL	1.5	OZ/A	POSTTP	0	67	0	0	0
SINBAR BRUNSWICK	3	OZ/A	POSTTP	99	93	99	0	0
SINBAR CABOT	3	OZ/A	POSTTP	99	93	99	0	0
SINBAR DARSELECT	3	OZ/A	POSTTP	99	95	99	0	0
SINBAR EVANGELINE	3	OZ/A	POSTTP	99	95	99	0	0
SINBAR HONEOYE	3	OZ/A	POSTTP	99	93	99	0	0

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Location: Fremont, Ohio
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Investigator: Doug Doohan

Weed Code				POLPY	POROL	ABUTH		
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				5/30/06	5/30/06	5/30/06	6/20/06	6/20/06
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	6 WAT	6 WAT
Spray Timing				POSTTP	POSTTP	POSTTP	POSTTP	POSTTP
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	11	12	13	14	15
SINBAR JEWEL	3	OZ/A	POSTTP	98	93	98	0	0
SINBAR BRUNSWICK	6	OZ/A	POSTTP	99	99	99	0	0
SINBAR CABOT	6	OZ/A	POSTTP	99	99	99	0	0
SINBAR DARSELECT	6	OZ/A	POSTTP	99	99	99	0	0
SINBAR EVANGELINE	6	OZ/A	POSTTP	99	99	99	0	0
SINBAR HONEOYE	6	OZ/A	POSTTP	99	99	99	0	0
SINBAR JEWEL	6	OZ/A	POSTTP	99	99	99	0	0
LSD (P=.05)				0.8	7.7	0.8	0	0
Standard Deviation				0.5	4.7	0.5	0	0
CV				0.95	7.23	0.95	0	0

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Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				FRAAN	FRAAN	FRAAN	AGRASS FRAAN	SOLPT FRAAN
Crop Code				PLANT	PLANT	PLANT	WEED	WEED
Part Rated				STUNT	CHLOROSIS	ROW THIN	CONTROL	CONTROL
Rating Data Type				%	%	%	%	%
Rating Unit				5/16/07	5/16/07	5/16/07	5/16/07	5/16/07
Rating Date				4 WAE	4 WAE	4 WAE	4 WAE	4 WAE
Trt-Eval Interval								
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
UNTREATED CONTROL BRUNSWICK				0	0	0	0	0
UNTREATED CONTROL CABOT				0	0	0	0	0
UNTREATED CONTROL DARSELECT				0	0	0	0	0
UNTREATED CONTROL EVANGELINE				0	0	0	0	0
UNTREATED CONTROL HONEOYE				0	0	0	0	0
CONTROL JEWEL				0	0	0	0	0
SINBAR BRUNSWICK	1.5	OZ/A	POSTTP	0	0	12	60	99
SINBAR CABOT	1.5	OZ/A	POSTTP	0	0	23	63	99
SINBAR DARSELECT	1.5	OZ/A	POSTTP	0	0	2	98	99
SINBAR EVANGELINE	1.5	OZ/A	POSTTP	3	0	30	56	99
SINBAR HONEOYE	1.5	OZ/A	POSTTP	0	0	0	71	99
SINBAR JEWEL	1.5	OZ/A	POSTTP	7	0	13	73	99
SINBAR BRUNSWICK	3	OZ/A	POSTTP	0	3	0	96	99
SINBAR CABOT	3	OZ/A	POSTTP	0	0	0	93	99
SINBAR DARSELECT	3	OZ/A	POSTTP	0	0	0	93	99
SINBAR EVANGELINE	3	OZ/A	POSTTP	7	0	37	60	99
SINBAR HONEOYE	3	OZ/A	POSTTP	0	0	8	86	99

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Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				FRAAN	FRAAN	FRAAN	AGRASS FRAAN	SOLPT FRAAN
Crop Code				PLANT	PLANT	PLANT	WEED	WEED
Part Rated				STUNT	CHLOROSIS	ROW THIN	CONTROL	CONTROL
Rating Data Type				%	%	%	%	%
Rating Unit				5/16/07	5/16/07	5/16/07	5/16/07	5/16/07
Rating Date				4 WAE	4 WAE	4 WAE	4 WAE	4 WAE
Trt-Eval Interval								
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	16	17	18	19	20
SINBAR JEWEL	3	OZ/A	POSTTP	0	0	10	83	99
SINBAR BRUNSWICK	6	OZ/A	POSTTP	0	0	3	48	99
SINBAR CABOT	6	OZ/A	POSTTP	3	0	7	66	99
SINBAR DARSELECT	6	OZ/A	POSTTP	2	0	5	55	99
SINBAR EVANGELINE	6	OZ/A	POSTTP	13	0	33	50	99
SINBAR HONEOYE	6	OZ/A	POSTTP	0	0	3	93	99
SINBAR JEWEL	6	OZ/A	POSTTP	0	0	0	65	99
LSD (P=.05)				8.2	1.9	21.3	49.6	0
Standard Deviation				4.9	1.2	12.9	30.1	0
CV				338.8	848.53	166.07	55.16	0

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Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				CHEAL	AMAXX	POLPY	TAROF	
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%
Rating Date				5/16/07	5/16/07	5/16/07	5/16/07	5/28/07
Trt-Eval Interval				4 WAE	4 WAE	4 WAE	4 WAE	6 WAE
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
UNTREATED CONTROL BRUNSWICK				0	0	0	0	0
UNTREATED CONTROL CABOT				0	0	0	0	0
UNTREATED CONTROL DARSELECT				0	0	0	0	0
UNTREATED CONTROL EVANGELINE				0	0	0	0	0
UNTREATED CONTROL HONEOYE				0	0	0	0	0
CONTROL JEWEL				0	0	0	0	0
SINBAR BRUNSWICK	1.5	OZ/A	POSTTP	99	99	99	99	0
SINBAR CABOT	1.5	OZ/A	POSTTP	99	99	99	99	0
SINBAR DARSELECT	1.5	OZ/A	POSTTP	99	99	99	60	0
SINBAR EVANGELINE	1.5	OZ/A	POSTTP	99	99	99	66	3
SINBAR HONEOYE	1.5	OZ/A	POSTTP	99	99	99	66	0
SINBAR JEWEL	1.5	OZ/A	POSTTP	99	99	99	66	2
SINBAR BRUNSWICK	3	OZ/A	POSTTP	99	99	99	93	0
SINBAR CABOT	3	OZ/A	POSTTP	99	99	99	98	0
SINBAR DARSELECT	3	OZ/A	POSTTP	99	99	99	93	0
SINBAR EVANGELINE	3	OZ/A	POSTTP	99	99	99	94	0
SINBAR HONEOYE	3	OZ/A	POSTTP	99	99	99	36	0

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Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code				CHEAL	AMAXX	POLPY	TAROF	
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%
Rating Date				5/16/07	5/16/07	5/16/07	5/16/07	5/28/07
Trt-Eval Interval				4 WAE	4 WAE	4 WAE	4 WAE	6 WAE
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	21	22	23	24	25
SINBAR JEWEL	3	OZ/A	POSTTP	99	99	99	66	3
SINBAR BRUNSWICK	6	OZ/A	POSTTP	99	99	99	63	0
SINBAR CABOT	6	OZ/A	POSTTP	99	99	99	63	0
SINBAR DARSELECT	6	OZ/A	POSTTP	99	99	99	99	3
SINBAR EVANGELINE	6	OZ/A	POSTTP	99	99	99	89	3
SINBAR HONEOYE	6	OZ/A	POSTTP	99	99	99	66	3
SINBAR JEWEL	6	OZ/A	POSTTP	99	99	99	89	0
LSD (P=.05)				0	0	0	50.7	4.5
Standard Deviation				0	0	0	30.7	2.8
CV				0	0	0	52.46	360.74

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Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	FRUIT
Rating Data Type				CHLOROSIS	ROW THIN	CURL	BURN	YIELD
Rating Unit				%	%	%	%	LB/PLOT
Rating Date				5/28/07	5/28/07	5/28/07	5/28/07	6/1/07
Trt-Eval Interval				6 WAE	6 WAE	6 WAE	6 WAE	HARVEST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
UNTREATED CONTROL BRUNSWICK				0	0	0	0	0.4
UNTREATED CONTROL CABOT				0	0	0	0	0.3
UNTREATED CONTROL DARSELECT				0	0	0	0	0.4
UNTREATED CONTROL EVANGELINE				0	0	0	0	0.9
UNTREATED CONTROL HONEOYE				0	0	0	0	0.6
CONTROL JEWEL				0	0	0	0	0.3
SINBAR BRUNSWICK	1.5	OZ/A	POSTTP	0	5	0	0	0.7
SINBAR CABOT	1.5	OZ/A	POSTTP	0	8	0	0	0.1
SINBAR DARSELECT	1.5	OZ/A	POSTTP	3	0	0	0	0.2
SINBAR EVANGELINE	1.5	OZ/A	POSTTP	0	7	0	0	0.6
SINBAR HONEOYE	1.5	OZ/A	POSTTP	0	0	0	0	0.6
SINBAR JEWEL	1.5	OZ/A	POSTTP	0	0	0	0	0.1
SINBAR BRUNSWICK	3	OZ/A	POSTTP	0	2	0	0	0.7
SINBAR CABOT	3	OZ/A	POSTTP	0	2	0	3	0.2
SINBAR DARSELECT	3	OZ/A	POSTTP	5	0	0	0	0.3
SINBAR EVANGELINE	3	OZ/A	POSTTP	0	15	0	0	0.4
SINBAR HONEOYE	3	OZ/A	POSTTP	0	2	0	2	0.6

The Ohio State University

STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR

Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	FRUIT
Rating Data Type				CHLOROSIS	ROW THIN	CURL	BURN	YIELD
Rating Unit				%	%	%	%	LB/PLOT
Rating Date				5/28/07	5/28/07	5/28/07	5/28/07	6/1/07
Trt-Eval Interval				6 WAE	6 WAE	6 WAE	6 WAE	HARVEST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	26	27	28	29	30
SINBAR JEWEL	3	OZ/A	POSTTP	0	2	0	0	0.2
SINBAR BRUNSWICK	6	OZ/A	POSTTP	0	0	3	0	0.5
SINBAR CABOT	6	OZ/A	POSTTP	0	0	0	0	0.2
SINBAR DARSELECT	6	OZ/A	POSTTP	0	2	0	2	0.4
SINBAR EVANGELINE	6	OZ/A	POSTTP	0	7	0	0	0.6
SINBAR HONEOYE	6	OZ/A	POSTTP	0	0	0	0	0.5
SINBAR JEWEL	6	OZ/A	POSTTP	0	0	0	0	0.2
LSD (P=.05)				3.4	8.3	1.9	2.4	0.4
Standard Deviation				2.1	5.1	1.2	1.5	0.3
CV				599.48	242.59	848.53	528.94	64.7

The Ohio State University

STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR

Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				YIELD	YIELD	YIELD	YIELD	TTL YIELD
Rating Unit				LB/PLOT	LB/PLOT	LB/PLOT	LB/PLOT	LB/PLOT
Rating Date				6/4/07	6/6/07	6/8/07	6/11/07	
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35
UNTREATED CONTROL BRUNSWICK				0.6	0.4	0.4	0.0	2.0
UNTREATED CONTROL CABOT				0.4	0.5	0.4	0.2	1.8
UNTREATED CONTROL DARSELECT				0.6	0.3	0.2	0.1	1.6
UNTREATED CONTROL EVANGELINE				0.3	0.2	0.0	0.0	1.5
UNTREATED CONTROL HONEOYE				0.9	0.4	0.2	0.0	2.1
CONTROL JEWEL				0.5	0.3	0.4	0.1	1.7
SINBAR BRUNSWICK	1.5	OZ/A	POSTTP	0.5	0.4	0.4	0.2	2.2
SINBAR CABOT	1.5	OZ/A	POSTTP	0.3	0.4	0.3	0.3	1.4
SINBAR DARSELECT	1.5	OZ/A	POSTTP	0.5	0.4	0.2	0.1	1.4
SINBAR EVANGELINE	1.5	OZ/A	POSTTP	0.3	0.1	0.4	0.0	1.5
SINBAR HONEOYE	1.5	OZ/A	POSTTP	0.6	0.4	0.2	0.1	1.9
SINBAR JEWEL	1.5	OZ/A	POSTTP	0.5	0.5	0.4	0.1	1.5
SINBAR BRUNSWICK	3	OZ/A	POSTTP	0.8	0.6	0.5	0.1	2.6
SINBAR CABOT	3	OZ/A	POSTTP	0.6	0.5	0.6	0.5	2.3
SINBAR DARSELECT	3	OZ/A	POSTTP	0.5	0.4	0.3	0.2	1.7
SINBAR EVANGELINE	3	OZ/A	POSTTP	0.3	0.1	0.0	0.0	0.9
SINBAR HONEOYE	3	OZ/A	POSTTP	0.7	0.5	0.2	0.0	2.1

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STRAWBERRY - EFFECT OF SOIL ORGANIC MATTER ON CULTIVAR RESPONSE TO SINBAR

Trial ID: STRSOMSIN 2007
Location: Fremont, Ohio
Study Dir.: Doug Doohan and T. Koch
Investigator: Doug Doohan

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	35
Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				YIELD	YIELD	YIELD	YIELD	TTL YIELD
Rating Unit				LB/PLOT	LB/PLOT	LB/PLOT	LB/PLOT	LB/PLOT
Rating Date				6/4/07	6/6/07	6/8/07	6/11/07	
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
SINBAR JEWEL	3	OZ/A	POSTTP	0.6	0.7	0.4	0.2	2.0
SINBAR BRUNSWICK	6	OZ/A	POSTTP	0.9	0.5	0.6	0.2	2.7
SINBAR CABOT	6	OZ/A	POSTTP	0.2	0.4	0.5	0.2	1.5
SINBAR DARSELECT	6	OZ/A	POSTTP	0.4	0.3	0.3	0.2	1.5
SINBAR EVANGELINE	6	OZ/A	POSTTP	0.4	0.2	0.1	0.0	1.2
SINBAR HONEOYE	6	OZ/A	POSTTP	0.9	0.5	0.3	0.1	2.1
SINBAR JEWEL	6	OZ/A	POSTTP	0.5	0.3	0.4	0.1	1.6
LSD (P=.05)				0.3	0.3	0.3	0.1	0.7
Standard Deviation				0.2	0.2	0.2	0.1	0.4
CV				39.2	41.9	48.3	57.1	22.8

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STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607 | Investigator: Doug Doohan
Study Dir.: Doug Doohan and T.Koch | Location: Wooster, Ohio

Trial Summary: The aim of this trial was varietal tolerance to combinations of currently labeled strawberry herbicides. The varieties were Brunswick, Cabot, Darselect, Evangeline, Honeoye and Jewel. The herbicide combinations included Stinger/Sinbar, Stinger/Deverinol, Stinger/Spartan, and Stinger/Chateau. The herbicides were applied broadcast over the plants on 11/5/06. Ratings were taken in the spring of 2007 at 1, 2, 4, 6, and 8 weeks after growth resumed.The best treatment for overall weed control was Stinger/Devrinol. Plant stunting in "Cabot" and "Darselect" was noted in the Stinger/Chateau treatment, and "Darselect" in the Stinger/Spartan treatment.

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 11/06/06
Country: USA | Planned Completion Date: 11/15/07

Objective: To evaluate four fall applied tank mixes on six strawberry varieties

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	RUMOB	broadleaf dock	*Rumex obtusifolius L.*
2	TAROF	dandelion	*Taraxacum officinale Weber*
3	VERPG	speedwell	*Veronica spp.*
4	MOLVE	carpetweed	*Mollugo verticillata L.*
5	AGRASS	annual grasses	*Setariia and Digitaria spp.*
6	AMAXX	pigweed spp.	*Amaranthus spp.*
7	CIRAR	Canada thistle	*Cirsium arvense (L.) Scop.*
8	POROL	common purslane	*Portulaca oleracea L.*
9	POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum L.*
10	LEPVI	Virginia pepperweed	*Lepidium virginicum L.*
11	SENVU	common groundsel	*Senecio vularis L.*

Crop 1: FRAAN | STRAWBERRY | Variety: 6 VARIETIES
Planting Date: 05/27/05 | Planting Method: MACHINE PLANTED
Rate: 1 PER FT | Depth: 4 IN
Row Spacing: 5 FT | Soil Moisture: MOIST

SITE AND DESIGN

Plot Width, Unit: 6 FT
Site Type: LEVEL FIELD | Study Design: SPLIT-PLOT
Tillage Type: CONVENTIONAL | Reps: 3

SOIL DESCRIPTION

% Sand: 11	% OM: 3.11	Texture: SILT LOAM
% Silt: 75	pH: 6.86	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 14	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A
Application Date:	11/15/2006
Time of Day:	10 -11AM
Application Method:	SPRAY
Application Timing:	DORMANT
Applic. Placement:	BROADCAST
Air Temp., Unit:	42 F
% Relative Humidity:	79
Wind Velocity, Unit:	7 MPH
Soil Moisture:	MOIST
% Cloud Cover:	75

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607 Investigator: Doug Doohan
Study Dir.: Doug Doohan and T.Koch Location: Wooster, Ohio

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FRAAN, POST
Stage Scale:	DORMANT
Height, Unit:	6 IN

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	RUMOB, POST
Stage Scale:	5 IN DIAM
Density, Unit:	LOW, PLOT
Weed 2 Code, Stage:	TAROF, POST
Stage Scale:	7 IN DIAMETER
Density, Unit:	LOW, PLOT
Weed 3 Code, Stage:	VERPG, POST
Stage Scale:	.
Density, Unit:	. .
Weed 4 Code, Stage:	MOLVE, POST
Stage Scale:	.
Density, Unit:	. .
Weed 5 Code, Stage:	AGRASS, POST
Stage Scale:	.
Density, Unit:	. .
Weed 6 Code, Stage:	AMAXX, POST
Stage Scale:	.
Density, Unit:	. .
Weed 7 Code, Stage:	CIRAR, POST
Stage Scale:	5-20 LF
Density, Unit:	MEDIUM, PLOT
Weed 8 Code, Stage:	POROL, POST
Stage Scale:	.
Density, Unit:	. .
Weed 9 Code, Stage:	POLPY, POST
Stage Scale:	.
Density, Unit:	. .
Weed10 Code, Stage:	LEPVI, POST
Stage Scale:	.
Density, Unit:	. .
Weed11 Code, Stage:	SENVU, POST
Stage Scale:	0.5-3 IN
Density, Unit:	LOW PLOT

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	FLAT FAN
Nozzle Size:	8002VS
Nozzle Spacing, Unit:	19 IN
Nozzles/Row:	4
Band Width, Unit:	6 FT
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Spray Volume, Unit:	25 GPA

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				CHLOROSIS	STUNT	LEAF CURL	CHLOROSIS	STUNT
Rating Data Type				%	%	%	%	%
Rating Unit				4/23/07	4/23/07	4/23/07	5/3/07	5/3/07
Rating Date				1 WAE	1 WAE	1 WAE	2 WAE	2 WAE
Trt-Eval Interval				POST	POST	POST	POST	POST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
BRUNSWICK CONTROL				0	0	0	0	0
BRUNSWICK				0	0	0	0	0
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
BRUNSWICK				0	0	0	0	3.3
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
BRUNSWICK				0	0	0	0	0
STINGER+	0.33	PT/A	POST					
SPARTAN	0.6	OZ/A	POST					
BRUNSWICK				0	0	0	0	1.7
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
CABOT CONTROL				0	0	0	0	0
CABOT				0	0	0	0	5
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
CABOT				0	0	0	0	3.3
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
CABOT				0	0	0	0	3.3
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
CABOT				0	7	0	0	13.3
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
DARSELECT CONTROL				0	0	0	0	0
DARSELECT				0	8	12	0	8.3
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
DARSELECT				2	8	8	0	6.7
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					

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STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				CHLOROSIS	STUNT	LEAF CURL	CHLOROSIS	STUNT
Rating Data Type				%	%	%	%	%
Rating Unit				4/23/07	4/23/07	4/23/07	5/3/07	5/3/07
Rating Date				1 WAE	1 WAE	1 WAE	2 WAE	2 WAE
Trt-Eval Interval				POST	POST	POST	POST	POST
Spray Timing								
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
DARSELECT				0	3	5	0	13.3
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
DARSELECT				0	15	17	0	11.7
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
EVANGELINE CONTROL				0	0	0	0	0
EVANGELINE				0	0	0	0	3.3
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
EVANGELINE				0	0	0	0	5
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
EVANGELINE				0	0	0	0	0
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
EVANGELINE				0	0	0	0	0
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
HONEOYE CONTROL				0	0	0	0	0
HONEOYE				0	0	0	0	0
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
HONEOYE				0	0	0	0	0
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
HONEOYE				0	0	0	0	0
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
HONEOYE				1	0	0	0	1.7
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
JEWEL UNTREATED CONTROL				0	0	0	0	0

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code								
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				CHLOROSIS	STUNT	LEAF CURL	CHLOROSIS	STUNT
Rating Unit				%	%	%	%	%
Rating Date				4/23/07	4/23/07	4/23/07	5/3/07	5/3/07
Trt-Eval Interval				1 WAE	1 WAE	1 WAE	2 WAE	2 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5
JEWEL				0	0	0	0	0
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
JEWEL				0	0	0	0	1.7
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
JEWEL				0	0	0	0	1.7
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
JEWEL				0	0	3	0	3.3
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
LSD (P=.05)				0.9	6.1	6.7	0	11.45
Standard Deviation				0.6	3.8	4.1	0	7.01
CV				644.65	270.63	274.73	0	242.62

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				LEAF CURL	THIN	CHLOROSIS	STUNT	LEAF CURL	STAND THIN
Rating Data Type				%	%	%	%	%	%
Rating Unit				5/3/07	5/3/07	5/9/07	5/9/07	5/9/07	5/9/07
Rating Date				2 WAE	2 WAE	3 WAE	3 WAE	3 WAE	3 WAE
Trt-Eval Interval				POST	POST	POST	POST	POST	POST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10	11
BRUNSWICK CONTROL				0	0	0	0	0	0
BRUNSWICK				0	0	0	0	0	0
STINGER+	0.33	PT/A	POST						
SINBAR	6	OZ/A	POST						
BRUNSWICK				0	8.3	0	5	0	7
STINGER+	0.33	PT/A	POST						
DEVRINOL	4	LB/A	POST						
BRUNSWICK				0	0	0	0	0	0
STINGER+	0.33	PT/A	POST						
SPARTAN	0.6	OZ/A	POST						
BRUNSWICK				0	0	0	3	0	0
STINGER+	0.33	PT/A	POST						
CHATEAU	3	OZ/A	POST						
CABOT CONTROL				0	0	0	0	0	0
CABOT				3.3	6.7	0	7	3	10
STINGER+	0.33	PT/A	POST						
SINBAR	6	OZ/A	POST						
CABOT				1.7	0	0	5	3	0
STINGER+	0.33	PT/A	POST						
DEVRINOL	4	LB/A	POST						
CABOT				0	10	0	13	0	13
STINGER+	0.33	PT/A	POST						
SPARTAN	6	OZ/A	POST						
CABOT				0	16.7	0	13	0	13
STINGER+	0.33	PT/A	POST						
CHATEAU	3	OZ/A	POST						
DARSELECT CONTROL				0	0	0	0	0	0
DARSELECT				1.7	16.7	0	7	7	5
STINGER+	0.33	PT/A	POST						
SINBAR	6	OZ/A	POST						
DARSELECT				0	16.7	0	3	0	8
STINGER+	0.33	PT/A	POST						
DEVRINOL	4	LB/A	POST						

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				LEAF CURL	THIN	CHLOROSIS	STUNT	LEAF CURL	STAND THIN
Rating Data Type				%	%	%	%	%	%
Rating Unit				5/3/07	5/3/07	5/9/07	5/9/07	5/9/07	5/9/07
Rating Date				2 WAE	2 WAE	3 WAE	3 WAE	3 WAE	3 WAE
Trt-Eval Interval				POST	POST	POST	POST	POST	POST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10	11
DARSELECT				0	16.7	0	5	0	13
STINGER+	0.33	PT/A	POST						
SPARTAN	6	OZ/A	POST						
DARSELECT				1.7	20	0	10	3	22
STINGER+	0.33	PT/A	POST						
CHATEAU	3	OZ/A	POST						
EVANGELINE CONTROL				0	0	0	0	0	0
EVANGELINE				0	3.3	0	0	0	0
STINGER+	0.33	PT/A	POST						
SINBAR	6	OZ/A	POST						
EVANGELINE				0	6.7	0	3	0	7
STINGER+	0.33	PT/A	POST						
DEVRINOL	4	LB/A	POST						
EVANGELINE				0	0	0	0	0	0
STINGER+	0.33	PT/A	POST						
SPARTAN	6	OZ/A	POST						
EVANGELINE				3.3	0	0	0	0	7
STINGER+	0.33	PT/A	POST						
CHATEAU	3	OZ/A	POST						
HONEOYE CONTROL				0	0	0	0	0	0
HONEOYE				0	0	0	0	0	3
STINGER+	0.33	PT/A	POST						
SINBAR	6	OZ/A	POST						
HONEOYE				0	0	0	0	0	0
STINGER+	0.33	PT/A	POST						
DEVRINOL	4	LB/A	POST						
HONEOYE				0	0	0	2	0	0
STINGER+	0.33	PT/A	POST						
SPARTAN	6	OZ/A	POST						
HONEOYE				0	3.3	0	3	0	7
STINGER+	0.33	PT/A	POST						
CHATEAU	3	OZ/A	POST						
JEWEL UNTREATED CONTROL				0	0	0	0	0	0

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Part Rated				LEAF CURL	THIN	CHLOROSIS	STUNT	LEAF CURL	STAND THIN
Rating Data Type				%	%	%	%	%	%
Rating Unit				5/3/07	5/3/07	5/9/07	5/9/07	5/9/07	5/9/07
Rating Date				2 WAE	2 WAE	3 WAE	3 WAE	3 WAE	3 WAE
Trt-Eval Interval				POST	POST	POST	POST	POST	POST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	6	7	8	9	10	11
JEWEL				0	10	0	0	0	15
STINGER+	0.33	PT/A	POST						
SINBAR	6	OZ/A	POST						
JEWEL				0	5	0	0	0	0
STINGER+	0.33	PT/A	POST						
DEVRINOL	4	LB/A	POST						
JEWEL				0	5	0	3	0	7
STINGER+	0.33	PT/A	POST						
SPARTAN	6	OZ/A	POST						
JEWEL				0	6.7	0	7	0	12
STINGER+	0.33	PT/A	POST						
CHATEAU	3	OZ/A	POST						
LSD (P=.05)				2.82	17.3	0	12.4	3.5	17.6
Standard Deviation				1.73	10.59	0	7.6	2.1	10.8
CV				443.82	209.55	0	252.26	384.35	217.77

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	RUMOB	AGRASS	POLAV	CIRAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/9/07	5/9/07	5/9/07	5/9/07	5/9/07
Trt-Eval Interval				3 WAE	3 WAE	3 WAE	3 WAE	3 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
BRUNSWICK CONTROL				0	0	0	0	0
BRUNSWICK				99	99	66	30	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
BRUNSWICK				99	99	99	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
BRUNSWICK				99	99	99	63	99
STINGER+	0.33	PT/A	POST					
SPARTAN	0.6	OZ/A	POST					
BRUNSWICK				99	99	66	96	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
CABOT CONTROL				0	0	0	0	0
CABOT				71	99	66	53	33
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
CABOT				99	99	99	99	50
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
CABOT				99	99	66	99	96
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
CABOT				99	99	99	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
DARSELECT CONTROL				0	0	0	0	0
DARSELECT				35	71	99	66	66
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
DARSELECT				66	99	99	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					

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STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	RUMOB	AGRASS	POLAV	CIRAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/9/07	5/9/07	5/9/07	5/9/07	5/9/07
Trt-Eval Interval				3 WAE	3 WAE	3 WAE	3 WAE	3 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
DARSELECT				71	99	66	99	66
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
DARSELECT				68	99	33	96	66
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
EVANGELINE CONTROL				0	0	0	0	0
EVANGELINE				33	99	99	98	96
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
EVANGELINE				99	99	66	66	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
EVANGELINE				99	99	33	96	66
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
EVANGELINE				66	99	33	99	66
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
HONEOYE CONTROL				0	0	0	0	0
HONEOYE				66	99	99	93	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
HONEOYE				66	99	99	99	33
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
HONEOYE				96	99	99	98	66
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
HONEOYE				63	99	66	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
JEWEL UNTREATED CONTROL				0	0	0	0	0

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	RUMOB	AGRASS	POLAV	CIRAR
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/9/07	5/9/07	5/9/07	5/9/07	5/9/07
Trt-Eval Interval				3 WAE	3 WAE	3 WAE	3 WAE	3 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	12	13	14	15	16
JEWEL				99	99	99	61	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
JEWEL				99	99	99	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
JEWEL				99	99	99	96	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
JEWEL				66	99	99	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
LSD (P=.05)				53.3	14.5	54.2	38.4	46.9
Standard Deviation				32.7	8.9	33.2	23.5	28.7
CV				50.13	11.31	51.11	33.61	43.29

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STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				VERPG				MOLVE
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	LEAF CURL	STAND THIN	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/9/07	5/31/07	5/31/07	5/31/07	6/14/07
Trt-Eval Interval				3 WAE	6 WAE	6 WAE	6 WAE	8 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
BRUNSWICK CONTROL				0	0	0	0	0
BRUNSWICK				99	0	0	5	45
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
BRUNSWICK				99	0	0	0	88
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
BRUNSWICK				99	0	0	0	37
STINGER+	0.33	PT/A	POST					
SPARTAN	0.6	OZ/A	POST					
BRUNSWICK				99	0	0	3	65
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
CABOT CONTROL				0	0	0	0	0
CABOT				99	5	0	10	68
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
CABOT				99	0	0	0	89
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
CABOT				99	0	0	5	91
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
CABOT				99	3	0	5	83
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
DARSELECT CONTROL				0	0	0	0	0
DARSELECT				66	0	0	0	60
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
DARSELECT				99	0	0	3	89
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					

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STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				VERPG				MOLVE
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	LEAF CURL	STAND THIN	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/9/07	5/31/07	5/31/07	5/31/07	6/14/07
Trt-Eval Interval				3 WAE	6 WAE	6 WAE	6 WAE	8 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
DARSELECT				99	2	0	2	89
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
DARSELECT				99	2	0	0	89
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
EVANGELINE CONTROL				0	0	0	0	0
EVANGELINE				96	2	0	3	61
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
EVANGELINE				99	7	0	2	83
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
EVANGELINE				99	0	0	0	70
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
EVANGELINE				99	0	0	3	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
HONEOYE CONTROL				0	0	0	0	0
HONEOYE				99	0	0	0	53
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
HONEOYE				99	0	0	0	98
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
HONEOYE				99	2	0	2	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
HONEOYE				99	0	0	3	93
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
JEWEL UNTREATED CONTROL				0	0	0	0	0

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				VERPG				MOLVE
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	STUNT	LEAF CURL	STAND THIN	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				5/9/07	5/31/07	5/31/07	5/31/07	6/14/07
Trt-Eval Interval				3 WAE	6 WAE	6 WAE	6 WAE	8 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	17	18	19	20	21
JEWEL				99	2	0	0	43
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
JEWEL				99	0	0	0	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
JEWEL				99	0	0	2	91
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
JEWEL				99	2	0	3	79
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
LSD (P=.05)				17.1	3.6	0	5.3	37.5
Standard Deviation				10.5	2.2	0	3.2	22.9
CV				13.45	264.44	0	188.22	36.97

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	RUMOB	AGRASS	MOLVE	LEPVI
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
BRUNSWICK CONTROL				0	0	0	0	0
BRUNSWICK				99	99	56	99	76
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
BRUNSWICK				86	99	86	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
BRUNSWICK				99	99	80	99	99
STINGER+	0.33	PT/A	POST					
SPARTAN	0.6	OZ/A	POST					
BRUNSWICK				99	99	43	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
CABOT CONTROL				0	0	0	0	0
CABOT				99	99	79	99	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
CABOT				99	99	99	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
CABOT				99	99	23	99	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
CABOT				99	99	57	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
DARSELECT CONTROL				0	0	0	0	0
DARSELECT				66	99	66	99	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
DARSELECT				66	99	85	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					

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STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	RUMOB	AGRASS	MOLVE	LEPVI
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
DARSELECT				66	99	55	99	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
DARSELECT				66	99	27	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
EVANGELINE CONTROL				0	0	0	0	0
EVANGELINE				66	99	30	99	78
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
EVANGELINE				99	99	33	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
EVANGELINE				99	99	17	99	66
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
EVANGELINE				99	99	0	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
HONEOYE CONTROL				0	0	0	0	0
HONEOYE				66	99	47	99	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
HONEOYE				99	99	53	99	86
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
HONEOYE				75	99	25	99	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
HONEOYE				99	99	33	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
JEWEL UNTREATED CONTROL				0	0	0	0	0

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				TAROF	RUMOB	AGRASS	MOLVE	LEPVI
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	22	23	24	25	26
JEWEL				99	99	46	99	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
JEWEL				93	99	80	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
JEWEL				99	99	73	99	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
JEWEL				99	99	47	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
LSD (P=.05)				40.5	0	54.8	0	23.9
Standard Deviation				24.8	0	33.6	0	14.6
CV				34.83	0	81.24	0	19.21

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				AMAXX	POROL	POLPY	CIRAR	VERPG
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31
BRUNSWICK CONTROL				0	0	0	0	0
BRUNSWICK				73	99	43	99	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
BRUNSWICK				96	73	56	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
BRUNSWICK				63	86	28	99	79
STINGER+	0.33	PT/A	POST					
SPARTAN	0.6	OZ/A	POST					
BRUNSWICK				60	99	76	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
CABOT CONTROL				0	0	0	0	0
CABOT				73	99	99	50	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
CABOT				86	99	99	50	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
CABOT				89	99	99	56	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
CABOT				83	96	99	99	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
DARSELECT CONTROL				0	0	0	0	0
DARSELECT				78	99	89	66	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
DARSELECT				99	98	91	79	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				AMAXX	POROL	POLPY	CIRAR	VERPG
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31
DARSELECT				94	94	91	66	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
DARSELECT				80	99	99	66	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
EVANGELINE CONTROL				0	0	0	0	0
EVANGELINE				80	79	79	66	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
EVANGELINE				90	81	93	66	89
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
EVANGELINE				63	99	33	66	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
EVANGELINE				85	91	79	66	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
HONEOYE CONTROL				0	0	0	0	0
HONEOYE				72	99	66	99	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
HONEOYE				95	99	78	43	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
HONEOYE				60	99	66	66	66
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
HONEOYE				70	99	99	99	83
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
JEWEL UNTREATED CONTROL				0	0	0	0	0

The Ohio State University

STRAWBERRY - WEED CONTROL AND CROP TOLERANCE TO FALL APPLIED TANK MIXES

Trial ID: STRFALLTANK 0607
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				AMAXX	POROL	POLPY	CIRAR	VERPG
Crop Code				FRAAN	FRAAN	FRAAN	FRAAN	FRAAN
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/14/07	6/14/07	6/14/07	6/14/07	6/14/07
Trt-Eval Interval				8 WAE	8 WAE	8 WAE	8 WAE	8 WAE
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	27	28	29	30	31
JEWEL				56	88	99	99	99
STINGER+	0.33	PT/A	POST					
SINBAR	6	OZ/A	POST					
JEWEL				98	99	99	99	99
STINGER+	0.33	PT/A	POST					
DEVRINOL	4	LB/A	POST					
JEWEL				76	99	89	99	99
STINGER+	0.33	PT/A	POST					
SPARTAN	6	OZ/A	POST					
JEWEL				83	96	99	66	99
STINGER+	0.33	PT/A	POST					
CHATEAU	3	OZ/A	POST					
LSD (P=.05)				27.7	17.2	42.9	53.9	21.6
Standard Deviation				17	10.5	26.3	33	13.2
CV				26.76	13.89	40.45	53.19	17.3

The Ohio State University

SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID:SCWCCTSIXVAR2007 | Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio | Investigator: Doug Doohan

Trial Summary: This was a comparison test between 2 postemergence (POST) weed control programs in sweet corn on six commercial varieties. The first program was Permit 75DF (0.66 oz/A) + NIS (0.5pt/A), and the second was Atrazine (1pt/A) + Impact (.0457 pt/A) + MSO (2pt/A) + UAN 28% (5pt/A), both applied at the 6" corn height stage. All plots received Dual 2 Magnum as a preemergent treatment at 2 pt/A. The varieties were MX 350, Providence, Sweet Shipper, Sugar Twist, Sweet Sunrise, and Sweet Surprise. Plots were rated at 1, 3, and 6 weeks after application for crop tolerance, weed control, and total yield. There was no crop injury with either Permit or Impact applied POST on the tested varieties. Both programs provided good overall weed control. Permit was weak on lambsquarters, and Impact was weak on wild buckwheat, but provided better control on Canada thistle than Permit. There were no statistical differences in yield among the treatments.

TRIAL LOCATION

City: Wooster | Trial Status: Final
State/Prov.: Ohio | Trial Reliability: Reliable
Postal Code: 44691 | Initiation Date: 05/21/07
Country: USA | Planned Completion Date: 10/30/07

Objective: To evaluate Permit and Impact for crop tolerance and weed control as POST treatments for six varieties of sweet corn.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	AMBEL	common ragweed
2	CHEAL	common lambsquarter
3	POLCO	wild buckwheat
4	POLPY	Pennsylvania smartweed
5	CYPES	yellow nutsedge
6	CIRAR	Canada thistle

Crop 1: ZEAMS | SWEET CORN
Planting Date: 05/21/07 | Planting Method: CONVENTIONAL
Rate: 20 K/ACRE | Depth: 1.5 IN
Row Spacing: 30 IN | Seed Bed: CONVENTIONAL
Emergence Date: 05/30/07

SITE AND DESIGN

Plot Width, Unit: 3 FT | Plot Length, Unit: 25 FT
Site Type: LEVEL FIELD | Reps: 4
Tillage Type: CONVENTIONAL | Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 11	% OM: 3.11	Texture: SILT LOAM
% Silt: 75	pH: 6.86	Soil Name: WOOSTER SILT LOAM
% Clay: 14	CEC: 14	Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/23/2007	6/12/2007
Time of Day:	10AM-2PM	8-9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	81.7 F	67.4
% Relative Humidity:	50.7	53
Wind Velocity, Unit:	4.1 MPH	2.6 MPH
% Cloud Cover:	25	0

The Ohio State University

SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID:SCWCCTSIXVAR2007 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMS, PRE	ZEAMS, POST
Stage Scale:	.	V3
Height, Unit:	0. .	6 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AMBEL, PRE	AMBEL, POST
Stage Scale:	.	1-3 IN
Density, Unit:	. .	HIGH, PLOT
Weed 2 Code, Stage:	CHEAL, PRE	CHEAL, POST
Stage Scale:	.	2-2.5 IN
Density, Unit:	. .	HIGH, PLOT
Weed 3 Code, Stage:	POLCO, PRE	POLCO, POST
Stage Scale:	.	2-IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 4 Code, Stage:	POLPY, PRE	POLPY, POST
Stage Scale:	.	1-2 IN
Density, Unit:	. .	LOW, PLOT
Weed 5 Code, Stage:	CYPES, PRE	CYPES, POST
Stage Scale:	.	4-6IN
Density, Unit:	. .	MEDIUM, PLOT
Weed 6 Code, Stage:	CIRAR, PRE	CIRAR, POST
Stage Scale:	.	4-6 IN DIAMETER
Density, Unit:	. .	LOW, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	2	2
Band Width, Unit:	36 IN	36IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2.5 MPH	2.5 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

The sweet corn varieties selected were:

Variety	Color	Type	Maturity	Source	Lot #	Use	harvest date
MX 350	BC	SH2/SHQ	80	Rispens Seeds, Inc.	75444LF	fresh market	8/13
Providence	BC	SH2/SHQ	80	Seiger Seeds, Inc.	12@1LBPP	fresh market	8/13
Sweet Shipper	Y	SH2	75	Seiger Seeds, Inc.	N/A	fresh market	8/9
Sugar Twist	BC	SH2/SHQ	80	Rispens Seeds, Inc.	1188362MR	fresh market	8/19
Sweet Sunrise	Y	SH2	73	Rispens Seeds, Inc.	1196223MR	fresh market	8/21
Sweet Surprise	BC	SH2	73	Seiger Seeds, Inc.	01@1483MBAG	fresh market	8/22

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						AGRASS	POLCO	AMBEL	CHEAL
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/6/07	6/6/07	6/6/07	6/6/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SWEET SUNRISE CONTROL				0	0	0	0	0	0
SWEET SUNRISE				0	0	99	99	98	98
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SUNRISE				0	0	99	99	98	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SUNRISE				0	0	99	99	60	20
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
PROVIDENCE CONTROL				0	0	0	0	0	0
PROVIDENCE				0	0	98	99	96	97
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
PROVIDENCE				0	0	99	99	97	97
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PROVIDENCE				0	0	97	99	43	8
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SUGAR TWIST CONTROL				0	0	0	0	0	0
SUGAR TWIST				0	0	99	99	96	98
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						AGRASS	POLCO	AMBEL	CHEAL
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/6/07	6/6/07	6/6/07	6/6/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
SUGAR TWIST				0	0	98	97	99	97
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SUGAR TWIST				0	0	98	99	43	0
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SHIPPER CONTROL				0	0	0	0	0	0
SWEET SHIPPER				0	0	98	99	98	98
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SHIPPER				0	0	99	99	96	97
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SHIPPER				0	0	98	99	61	31
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
MX 350 CONTROL				0	0	0	0	0	0
MX 350				0	0	99	99	96	94
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
MX 350				0	0	99	99	95	96
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code						AGRASS	POLCO	AMBEL	CHEAL
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	WEED	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/6/07	6/6/07	6/6/07	6/6/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	2 WAT	2 WAT	2 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
MX 350				0	0	97	99	43	0
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SURPRISE CONTROL				0	0	0	0	0	0
SWEET SURPRISE				0	0	99	99	97	96
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SURPRISE				0	0	99	99	96	95
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SURPRISE				0	0	99	99	43	0
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
LSD (P=.05)				0	0	1.6	0.7	7.7	16.7
Standard Deviation				0	0	1.1	0.5	5.5	11.8
CV				0	0	1.55	0.64	9.05	23.23

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLPY	CIRAR	CYPES			AGRASS
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/6/07	6/13/07	6/13/07	6/13/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE PRE		PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SWEET SUNRISE CONTROL				0	0	0	0	0	0
SWEET SUNRISE				99	99	67	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SUNRISE				99	74	87	0	0	98
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SUNRISE				25	25	74	0	0	96
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
PROVIDENCE CONTROL				0	0	0	0	0	0
PROVIDENCE				99	74	55	0	0	97
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
PROVIDENCE				99	57	74	0	0	98
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PROVIDENCE				50	0	74	0	0	97
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SUGAR TWIST CONTROL				0	0	0	0	0	0
SUGAR TWIST				99	87	81	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLPY	CIRAR	CYPES			AGRASS
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/6/07	6/13/07	6/13/07	6/13/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE PRE		PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
SUGAR TWIST				99	65	50	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SUGAR TWIST				0	0	50	0	0	74
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SHIPPER CONTROL				0	0	0	0	0	0
SWEET SHIPPER				99	25	74	0	0	98
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SHIPPER				99	50	74	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SHIPPER				50	0	74	0	25	89
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
MX 350 CONTROL				0	0	0	0	0	0
MX 350				99	45	99	0	0	98
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
MX 350				99	50	99	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						

The Ohio State University

SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLPY	CIRAR	CYPES			AGRASS
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	PLANT	PLANT	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CHLOROSIS	STUNT	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/6/07	6/13/07	6/13/07	6/13/07
Trt-Eval Interval				2 WAT	2 WAT	2 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE PRE		PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
MX 350				0	0	50	0	0	95
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SURPRISE CONTROL				0	0	0	0	0	0
SWEET SURPRISE				98	78	79	0	0	97
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SURPRISE				99	52	50	0	0	98
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SURPRISE				0	0	74	0	0	96
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
LSD (P=.05)				27.4	47.8	54.2	0	14.3	15.7
Standard Deviation				19.4	33.8	38.3	0	10.1	11.1
CV				35.45	104.14	71.66	0	979.8	15.43

The Ohio State University

SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLCO	AMBEL	CHEAL	POLPY	CIRAR
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/13/07	6/13/07	6/13/07	6/13/07	6/13/07
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
SWEET SUNRISE CONTROL				0	0	0	0	0
SWEET SUNRISE				99	99	80	99	50
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
SWEET SUNRISE				99	99	86	99	78
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
SWEET SUNRISE				95	97	97	99	98
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
PROVIDENCE CONTROL				0	0	0	0	0
PROVIDENCE				99	97	86	99	37
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
PROVIDENCE				99	99	88	99	65
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
PROVIDENCE				87	99	99	99	77
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
SUGAR TWIST CONTROL				0	0	0	0	0
SUGAR TWIST				99	98	85	99	42
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLCO	AMBEL	CHEAL	POLPY	CIRAR
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/13/07	6/13/07	6/13/07	6/13/07	6/13/07
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
SUGAR TWIST				99	99	68	99	58
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
SUGAR TWIST				86	98	98	99	74
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
SWEET SHIPPER CONTROL				0	0	0	0	0
SWEET SHIPPER				99	97	86	99	0
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
SWEET SHIPPER				99	99	89	99	67
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
SWEET SHIPPER				99	99	99	99	77
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
MX 350 CONTROL				0	0	0	0	0
MX 350				99	98	78	99	37
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
MX 350				99	99	89	99	55
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					

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Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLCO	AMBEL	CHEAL	POLPY	CIRAR
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Rating Date				6/13/07	6/13/07	6/13/07	6/13/07	6/13/07
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				PRE PRE		PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
MX 350				86	99	99	99	77
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
SWEET SURPRISE CONTROL				0	0	0	0	0
SWEET SURPRISE				99	99	85	99	50
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
SWEET SURPRISE				99	99	85	99	99
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
SWEET SURPRISE				96	99	99	98	80
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
LSD (P=.05)				11.6	1.5	11.2	0.6	46.7
Standard Deviation				8.2	1	7.9	0.4	33
CV				11.39	1.4	11.95	0.55	70.74

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Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CYPES					POLCO
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	BURN	CHLOROSIS	STUNT	TWIST	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/13/07	6/19/07	6/19/07	6/19/07	6/19/07	6/19/07
Trt-Eval Interval				3 WAT	1WAT	1WAT	1WAT	1WAT	1WAT
Spray Timing				PRE POST		POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
SWEET SUNRISE CONTROL				0	0	0	0	0	0
SWEET SUNRISE				25					
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SUNRISE				96	0	0	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SUNRISE				78	0	0	0	0	82
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
PROVIDENCE CONTROL				0	0	0	0	0	0
PROVIDENCE				50					
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
PROVIDENCE				95	0	0	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PROVIDENCE				56	0	0	0	0	83
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SUGAR TWIST CONTROL				0	0	0	0	0	0
SUGAR TWIST				74					
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						

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Trial ID: SCWCCTSIXVAR 2007
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Location: Wooster, Ohio

Weed Code				CYPES					POLCO
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	BURN	CHLOROSIS	STUNT	TWIST	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/13/07	6/19/07	6/19/07	6/19/07	6/19/07	6/19/07
Trt-Eval Interval				3 WAT	1WAT	1WAT	1WAT	1WAT	1WAT
Spray Timing				PRE POST		POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
SUGAR TWIST				94	0	0	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SUGAR TWIST				52	0	0	0	0	84
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SHIPPER CONTROL				0	0	0	0	0	0
SWEET SHIPPER				74					
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SHIPPER				97	0	0	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SHIPPER				89	0	0	0	0	82
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
MX 350 CONTROL				0	0	0	0	0	0
MX 350				74					
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
MX 350				97	0	0	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						

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Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CYPES					POLCO
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				CONTROL	BURN	CHLOROSIS	STUNT	TWIST	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/13/07	6/19/07	6/19/07	6/19/07	6/19/07	6/19/07
Trt-Eval Interval				3 WAT	1WAT	1WAT	1WAT	1WAT	1WAT
Spray Timing				PRE POST		POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
MX 350				86	0	0	0	0	80
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SURPRISE CONTROL				0	0	0	0	0	0
SWEET SURPRISE				25					
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SURPRISE				92	0	0	0	0	99
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SURPRISE				77	0	0	0	0	85
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
LSD (P=.05)				45	0	0	0	0	10.7
Standard Deviation				31.8	0	0	0	0	7.5
CV				57.49	0	0	0	0	12.45

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
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Location: Wooster, Ohio

Weed Code				AMBEL	CHEAL	POLPY	CIRAR	
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	BURN
Rating Unit				%	%	%	%	%
Rating Date				6/19/07	6/19/07	6/19/07	6/19/07	7/6/07
Trt-Eval Interval				1WAT	1WAT	1WAT	1WAT	3WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
SWEET SUNRISE CONTROL				0	0	0	0	0
SWEET SUNRISE								
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
SWEET SUNRISE				99	0	99	78	0
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
SWEET SUNRISE				94	94	99	99	0
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
PROVIDENCE CONTROL				0	0	0	0	0
PROVIDENCE								
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
PROVIDENCE				99	0	99	65	0
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
PROVIDENCE				99	99	99	91	0
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
SUGAR TWIST CONTROL				0	0	0	0	0
SUGAR TWIST								
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					

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Location: Wooster, Ohio

Weed Code				AMBEL	CHEAL	POLPY	CIRAR	
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	BURN
Rating Unit				%	%	%	%	%
Rating Date				6/19/07	6/19/07	6/19/07	6/19/07	7/6/07
Trt-Eval Interval				1WAT	1WAT	1WAT	1WAT	3WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
SUGAR TWIST				99	0	99	75	0
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
SUGAR TWIST				91	91	99	99	0
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
SWEET SHIPPER CONTROL				0	0	0	0	0
SWEET SHIPPER								
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
SWEET SHIPPER				99	0	99	71	0
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
SWEET SHIPPER				92	92	99	82	0
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
MX 350 CONTROL				0	0	0	0	0
MX 350								
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
MX 350				99	0	99	96	0
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					

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Location: Wooster, Ohio

Weed Code				AMBEL	CHEAL	POLPY	CIRAR	
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	WEED	PLANT
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	BURN
Rating Unit				%	%	%	%	%
Rating Date				6/19/07	6/19/07	6/19/07	6/19/07	7/6/07
Trt-Eval Interval				1WAT	1WAT	1WAT	1WAT	3WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28
MX 350				90	90	99	99	0
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
SWEET SURPRISE CONTROL				0	0	0	0	0
SWEET SURPRISE								
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE	2	PT/A	PRE					
SWEET SURPRISE				99	0	99	96	0
DUAL 2 MAGNUM+	2	PT/A	PRE					
ATRAZINE+	2	PT/A	PRE					
PERMIT+	0.66	OZ/A	POST					
NIS	0.5	PT/A	POST					
SWEET SURPRISE				85	85	99	99	0
DUAL 2 MAGNUM	1.01	PT/A	PRE					
ATRAZINE+	1	PT/A	POST					
IMPACT+	0.0457	PT/A	POST					
MSO+	2	PT/A	POST					
UAN 28%	5	PT/A	POST					
LSD (P=.05)				6.6	6.6	0.2	30.4	0
Standard Deviation				4.7	4.7	0.1	21.5	0
CV				7.31	15.24	0.18	36.99	0

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	POLCO ZEAMS	AMBEL ZEAMS	CHEAL ZEAMS
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	TWIST	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/6/07	7/6/07	7/6/07	7/6/07	7/6/07	7/6/07
Trt-Eval Interval				3WAT	3WAT	3WAT	3WAT	3WAT	3WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	29	30	31	32	33	34
SWEET SUNRISE CONTROL				0	0	0	0	0	0
SWEET SUNRISE									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SUNRISE				0	0	0	99	99	52
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SUNRISE				0	0	0	99	98	93
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
PROVIDENCE CONTROL				0	0	0	0	0	0
PROVIDENCE									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
PROVIDENCE				0	1	0	99	99	48
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PROVIDENCE				0	1	0	99	99	99
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SUGAR TWIST CONTROL				0	0	0	0	0	0
SUGAR TWIST									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						

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Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code									
Crop Code				ZEAMS	ZEAMS	ZEAMS	POLCO ZEAMS	AMBEL ZEAMS	CHEAL ZEAMS
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	TWIST	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/6/07	7/6/07	7/6/07	7/6/07	7/6/07	7/6/07
Trt-Eval Interval				3WAT	3WAT	3WAT	3WAT	3WAT	3WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	29	30	31	32	33	34
SUGAR TWIST				0	0	0	99	99	18
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SUGAR TWIST				0	3	0	99	99	92
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SHIPPER CONTROL				0	0	0	0	0	0
SWEET SHIPPER									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SHIPPER				0	0	0	99	99	44
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SHIPPER				0	0	0	99	99	99
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
MX 350 CONTROL				0	0	0	0	0	0
MX 350									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
MX 350				0	0	0	99	99	61
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							POLCO	AMBEL	CHEAL
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				CHLOROSIS	STUNT	TWIST	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/6/07	7/6/07	7/6/07	7/6/07	7/6/07	7/6/07
Trt-Eval Interval				3WAT	3WAT	3WAT	3WAT	3WAT	3WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	29	30	31	32	33	34
MX 350				0	1	0	99	99	99
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SURPRISE CONTROL				0	0	0	0	0	0
SWEET SURPRISE									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SURPRISE				0	0	0	99	99	40
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SURPRISE				0	0	0	99	98	99
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
LSD (P=.05)				0	2.2	0	0	0.9	27.1
Standard Deviation				0	1.6	0	0	0.6	19.2
CV				0	455.24	0	0	0.98	40.93

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLPY	CIRAR		POLCO	AMBEL	CHEAL
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/6/07	7/6/07	7/25/07	7/25/07	7/25/07	7/25/07
Trt-Eval Interval				3WAT	3WAT	6WAT	6WAT	6WAT	6WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	37	38	39	40
SWEET SUNRISE CONTROL				0	0	0	0	0	0
SWEET SUNRISE									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SUNRISE				99	87	1	99	99	52
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SUNRISE				91	91	3	50	91	88
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
PROVIDENCE CONTROL				0	0	0	0	0	0
PROVIDENCE									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
PROVIDENCE				99	62	0	99	99	35
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PROVIDENCE				89	74	0	74	96	99
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SUGAR TWIST CONTROL				0	0	0	0	0	0
SUGAR TWIST									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLPY	CIRAR		POLCO	AMBEL	CHEAL
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/6/07	7/6/07	7/25/07	7/25/07	7/25/07	7/25/07
Trt-Eval Interval				3WAT	3WAT	6WAT	6WAT	6WAT	6WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	37	38	39	40
SUGAR TWIST				99	50	0	99	99	8
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SUGAR TWIST				88	99	0	50	92	80
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SHIPPER CONTROL				0	0	0	0	0	0
SWEET SHIPPER									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SHIPPER				99	64	0	99	99	30
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SHIPPER				99	77	0	87	97	99
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
MX 350 CONTROL				0	0	0	0	0	0
MX 350									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
MX 350				99	62	0	99	98	39
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				POLPY	CIRAR		POLCO	AMBEL	CHEAL
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	PLANT	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	STUNT	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/6/07	7/6/07	7/25/07	7/25/07	7/25/07	7/25/07
Trt-Eval Interval				3WAT	3WAT	6WAT	6WAT	6WAT	6WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	35	36	37	38	39	40
MX 350				89	87	0	25	95	99
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SURPRISE CONTROL				0	0	0	0	0	0
SWEET SURPRISE									
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SURPRISE				99	89	0	96	99	31
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SURPRISE				97	99	1	74	94	97
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
LSD (P=.05)				12.6	37.3	2	36.8	6	26.3
Standard Deviation				8.9	26.4	1.4	26	4.3	18.6
CV				13.94	50.55	514.5	49.37	6.62	44.3

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CYPES	POLPY	CIRAR			
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	PLANT	EAR	EAR
Rating Data Type				CONTROL	CONTROL	CONTROL	STAND CT	TTL MKTB	TTL MKTB
Rating Unit				%	%	%	2 ROWS	NO/PLOT	LBS/PLOT
Rating Date				7/25/07	7/25/07	7/25/07	6/28/07	8/15/07	8/15/07
Trt-Eval Interval				6WAT	6WAT	6WAT	PRE HARV	HARVEST	HARVEST
Spray Timing				POST	POST	POST			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44	45	46
SWEET SUNRISE CONTROL				0	0	0	40	2	0.9
SWEET SUNRISE							38	31	17.7
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SUNRISE				99	99	87	35	33	19.4
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SUNRISE				94	77	97	38	31	18.4
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
PROVIDENCE CONTROL				0	0	0	41	1	0.8
PROVIDENCE							42	39	34.6
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
PROVIDENCE				99	99	50	38	38	34.9
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
PROVIDENCE				94	89	64	43	36	32.4
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SUGAR TWIST CONTROL				0	0	0	39	1	0.1
SUGAR TWIST							35	33	28.8
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CYPES	POLPY	CIRAR			
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	PLANT	EAR	EAR
Rating Data Type				CONTROL	CONTROL	CONTROL	STAND CT	TTL MKTB	TTL MKTB
Rating Unit				%	%	%	2 ROWS	NO/PLOT	LBS/PLOT
Rating Date				7/25/07	7/25/07	7/25/07	6/28/07	8/15/07	8/15/07
Trt-Eval Interval				6WAT	6WAT	6WAT	PRE HARV	HARVEST	HARVEST
Spray Timing				POST	POST	POST			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44	45	46
SUGAR TWIST				99	96	68	33	31	27.5
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SUGAR TWIST				72	99	87	35	36	32.5
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SHIPPER CONTROL				0	0	0	37	0	0.2
SWEET SHIPPER							41	29	20.3
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SHIPPER				99	99	64	40	30	20.4
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SHIPPER				89	98	80	42	30	21.2
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
MX 350 CONTROL				0	0	0	32	1	0.6
MX 350							32	30	25.2
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
MX 350				99	99	71	34	34	28.6
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						

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SWEET CORN - WEED CONTROL AND CROP TOLERANCE TO PERMIT AND IMPACT

Trial ID: SCWCCTSIXVAR 2007
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				CYPES	POLPY	CIRAR			
Crop Code				ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS
Part Rated				WEED	WEED	WEED	PLANT	EAR	EAR
Rating Data Type				CONTROL	CONTROL	CONTROL	STAND CT	TTL MKTB	TTL MKTB
Rating Unit				%	%	%	2 ROWS	NO/PLOT	LBS/PLOT
Rating Date				7/25/07	7/25/07	7/25/07	6/28/07	8/15/07	8/15/07
Trt-Eval Interval				6WAT	6WAT	6WAT	PRE HARV	HARVEST	HARVEST
Spray Timing				POST	POST	POST			
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	41	42	43	44	45	46
MX 350				92	76	78	33	32	27.8
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
SWEET SURPRISE CONTROL				0	0	0	36	0	0
SWEET SURPRISE							35	32	19.5
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE	2	PT/A	PRE						
SWEET SURPRISE				98	99	89	38	33	19.6
DUAL 2 MAGNUM+	2	PT/A	PRE						
ATRAZINE+	2	PT/A	PRE						
PERMIT+	0.66	OZ/A	POST						
NIS	0.5	PT/A	POST						
SWEET SURPRISE				83	75	96	37	35	20.5
DUAL 2 MAGNUM	1.01	PT/A	PRE						
ATRAZINE+	1	PT/A	POST						
IMPACT+	0.0457	PT/A	POST						
MSO+	2	PT/A	POST						
UAN 28%	5	PT/A	POST						
LSD (P=.05)				13.7	15	33.3	5.6	7	5.44
Standard Deviation				9.7	10.6	23.5	3.9	4.9	3.85
CV				15.58	17.24	45.61	10.62	19.89	20.46

The Ohio State University

TOMATO - TOLERANCE OF EIGHT PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

Trial Summary: This trial involved Harmony GT (75DF), as a potential postemergence (POST) herbicide for use in processing tomatoes. Tomato varieties were HZ 9704, RG 46, RG 111, RG 401, RG 331, RG 611, RG 818, and TR-12, all important Ohio varieties. A blanket application of Dual Magnum at 1.33 pt/A was applied PRE. Harmony GT was applied broadcast over the plants about one month after transplanting at 0, 8, and 16 g/ha. Ratings for crop tolerance and weed control were taken at 1, 3, and 6 weeks after application. Results at 3 weeks after treatment indicated significant plant injury on HZ 9704, RG 401, RG 818, and TR-12 with both rates. All cultivars recovered within 4 weeks of treatment except for TR-12. TR-12 had the highest amount of stunting and bloom delay, which resulted in 50% more green fruit at harvest. Although lambsquarters was the only weed species present in our trial, weed control at 6 weeks after treatment indicated control up to 75% with 8 g/ha, and up to 85% control with 16 g/ha of Harmony GT.

TRIAL LOCATION

City: Wooster
State/Prov.: Ohio
Postal Code: 44691
Country: USA

Trial Status: Final
Trial Reliability: Reliable
Initiation Date: 06/04/07
Planned Completion Date: 11/15/07

Objective: To evaluate crop tolerance of eight processing tomato varieties to Harmony GT herbicide .

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1	CHEAL	common lambsquarters	*Chenopodium album L.*

Crop 1: LYPES PROCESSING TOMATO
Planting Date: 06/15/06
Rate: 1 PER 18"
Row Spacing: 5 FT
Seed Bed: CONVENTIONAL

Variety: 8 VARIETIES
Planting Method: MACHINE PLANTED
Depth: 2 IN

SITE AND DESIGN

Plot Width, Unit: 5 FT
Site Type: LEVEL FIELD
Tillage Type: CONVENTIONAL

Plot Length, Unit: 25 FT
Reps: 4
Study Design: SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 16
% Silt: 72
% Clay: 12

% OM: 3.11
pH: 6.86
CEC: 8.5

Texture: SILT LOAM
Soil Name: WOOSTER SILT LOAM
Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/30/2007	7/6/2007
Time of Day:	9 AM	9-10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	74.9 F	74.6 F
% Relative Humidity:	62.8	65.4
Wind Velocity, Unit:	2.2 MPH	3.9 MPH
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	50	0

The Ohio State University

TOMATO - TOLERANCE OF EIGHT PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07 Study Dir.: Doug Doohan and T.Koch
Location: Wooster, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES, PRE	LYPES, POST
Stage Scale:	.	EARLY BLOOM
Height, Unit:	0. .	12 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	CHEAL, PRE	CHEAL, POST
Stage Scale:	.	SEEDLING
Density, Unit:	. .	MEDIUM, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	BACKPACK
Operating Pressure:	20	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	18 IN	15 IN
Nozzles/Row:	10	4
Band Width, Unit:	15 FT	5 FT
Boom Height, Unit:	18 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	28 GPA	25 GPA

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				LYPES	LYPES	LYPES	LYPES	LYPES	CHEAL LYPES
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT	WEED
Part Rated				BURN	STUNT	CHLOROSIS	LEAF CURL	MOTTLE	CONTROL
Rating Data Type				%	%	%	%	%	%
Rating Unit				7/9/07	7/9/07	7/9/07	7/9/07	7/9/07	7/9/07
Rating Date				3 DAT	3 DAT	3 DAT	3 DAT	3 DAT	3 DAT
Trt-Eval Interval				POST	POST	POST	POST	POST	POST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
TR122244				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
TR122244				0	10	38	33	1	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
TR122244				0	16	43	36	0	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
401401TJ				0	9	1	4	1	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ				0	15	0	5	4	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
61161103				0	13	4	5	5	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103				0	16	5	8	6	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
46TJ0203				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
46TJ0203				0	5	0	3	5	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				LYPES	LYPES	LYPES	LYPES	LYPES	CHEAL LYPES
Crop Code				PLANT	PLANT	PLANT	PLANT	PLANT	WEED
Part Rated				BURN	STUNT	CHLOROSIS	LEAF CURL	MOTTLE	CONTROL
Rating Data Type				%	%	%	%	%	%
Rating Unit				7/9/07	7/9/07	7/9/07	7/9/07	7/9/07	7/9/07
Rating Date				3 DAT	3 DAT	3 DAT	3 DAT	3 DAT	3 DAT
Trt-Eval Interval				POST	POST	POST	POST	POST	POST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
46TJ0203				0	15	3	13	11	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
11111120				0	3	0	4	3	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				0	5	0	1	5	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
97045116				0	9	0	38	3	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				0	14	3	63	8	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
18818TJ0				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
18818TJ0				0	10	0	8	6	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
18818TJ0				0	16	0	11	13	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code									CHEAL
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	WEED
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	MOTTLE	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				7/9/07	7/9/07	7/9/07	7/9/07	7/9/07	7/9/07
Trt-Eval Interval				3 DAT	3 DAT	3 DAT	3 DAT	3 DAT	3 DAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
331331BF				0	4	0	3	3	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	15	0	5	9	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
LSD (P=.05)				0	6.2	3.5	10	3.8	0
Standard Deviation				0	4.4	2.5	7.1	2.7	0
CV				0	60.84	62.85	72	79.12	0

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code									
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	MOTTLE	THIN
Rating Unit				%	%	%	%	%	%
Rating Date				7/16/07	7/16/07	7/16/07	7/16/07	7/16/07	7/16/07
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
TR122244				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
TR122244				0	11	0	8	1	10
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
TR122244				0	18	0	10	4	13
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
401401TJ				0	13	0	0	0	14
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ				0	8	0	3	0	13
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
61161103				0	4	0	1	0	5
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103				0	4	0	4	0	5
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
46TJ0203				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
46TJ0203				0	4	0	0	0	10
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code									
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	MOTTLE	THIN
Rating Unit				%	%	%	%	%	%
Rating Date				7/16/07	7/16/07	7/16/07	7/16/07	7/16/07	7/16/07
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
46TJ0203				0	10	0	0	0	15
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
11111120				0	1	0	0	0	3
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				0	3	0	3	0	8
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
97045116				0	10	0	8	0	14
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				0	15	0	15	0	8
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
18818TJ0				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
18818TJ0				0	10	0	0	0	10
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
18818TJ0				0	16	0	0	0	16
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code									
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Data Type				BURN	STUNT	CHLOROSIS	LEAF CURL	MOTTLE	THIN
Rating Unit				%	%	%	%	%	%
Rating Date				7/16/07	7/16/07	7/16/07	7/16/07	7/16/07	7/16/07
Trt-Eval Interval				1 WAT	1 WAT	1 WAT	1 WAT	1 WAT	1 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
331331BF				0	6	0	0	0	9
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	11	0	0	0	14
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
LSD (P=.05)				0	6	0	4.9	1.5	7.8
Standard Deviation				0	4.3	0	3.5	1.1	5.5
CV				0	71.6	0	167.85	520.87	81.08

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code					CHEAL			
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	WEED	PLANT	PLANT	PLANT
Rating Data Type				BLOOM DELAY	CONTROL	BURN	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/16/07	7/16/07	7/27/07	7/27/07	7/27/07
Trt-Eval Interval				1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
TR122244				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
TR122244				56	56	0	9	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
TR122244				58	66	0	10	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
401401TJ				3	40	0	11	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				0	51	0	3	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
61161103				5	28	0	6	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				0	19	0	4	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
46TJ0203				0	40	0	6	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code					CHEAL			
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	WEED	PLANT	PLANT	PLANT
Rating Data Type				BLOOM DELAY	CONTROL	BURN	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/16/07	7/16/07	7/27/07	7/27/07	7/27/07
Trt-Eval Interval				1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
46TJ0203				0	59	0	5	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
11111120				0	40	0	4	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				0	74	0	3	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
97045116				0	28	0	8	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				0	40	0	9	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
18818TJ0				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					
18818TJ0				0	40	0	10	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
18818TJ0				0	55	0	5	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				0	0	0	0	0
Control								
Dual Magnum	1.33	PT/A	PRE					

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code					CHEAL			
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	WEED	PLANT	PLANT	PLANT
Rating Data Type				BLOOM DELAY	CONTROL	BURN	STUNT	CHLOROSIS
Rating Unit				%	%	%	%	%
Rating Date				7/16/07	7/16/07	7/27/07	7/27/07	7/27/07
Trt-Eval Interval				1 WAT	1 WAT	3 WAT	3 WAT	3 WAT
Spray Timing				POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17
331331BF				3	55	0	6	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				6	73	0	6	0
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				5.8	30.7	0	6.5	0
Standard Deviation				4.1	21.7	0	4.6	0
CV				75.3	68.35	0	105.56	0

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				LYPES	LYPES	LYPES	CHEAL LYPES	LYPES	LYPES
Crop Code				PLANT	PLANT	PLANT	WEED	PLANT	PLANT
Part Rated				LEAF CURL	MOTTLE	BLOOM DELAY	CONTROL	THIN	BURN
Rating Data Type				%	%	%	%	%	%
Rating Unit				7/27/07	7/27/07	7/27/07	7/27/07	7/27/07	8/17/07
Rating Date				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	6 WAT
Trt-Eval Interval				POST	POST	POST	POST	POST	POST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
TR122244 Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
TR122244				0	0	16	0	10	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
TR122244				0	0	31	0	16	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
401401TJ				15	0	0	0	14	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ				10	0	0	0	5	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103 Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
61161103				0	0	1	0	9	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103				0	0	0	0	4	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
46TJ0203 Control				0	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
46TJ0203				1	0	0	0	6	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code									
Crop Code				LYPES	LYPES	LYPES	CHEAL LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	WEED	PLANT	PLANT
Rating Data Type				LEAF CURL	MOTTLE	BLOOM DELAY	CONTROL	THIN	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				7/27/07	7/27/07	7/27/07	7/27/07	7/27/07	8/17/07
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
46TJ0203				0	0	0	0	4	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
11111120				3	0	0	0	0	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				6	0	0	0	3	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
97045116				10	0	0	0	6	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				10	0	0	0	5	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
18818TJ0				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
18818TJ0				4	0	0	19	5	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
18818TJ0				3	0	0	15	5	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code							CHEAL		
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	WEED	PLANT	PLANT
Rating Data Type				LEAF CURL	MOTTLE	BLOOM DELAY	CONTROL	THIN	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				7/27/07	7/27/07	7/27/07	7/27/07	7/27/07	8/17/07
Trt-Eval Interval				3 WAT	3 WAT	3 WAT	3 WAT	3 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	18	19	20	21	22	23
331331BF				0	0	0	0	5	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	0	0	0	5	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
LSD (P=.05)				5.2	0	8.8	14	7.4	0
Standard Deviation				3.7	0	6.2	9.9	5.3	0
CV				143.41	0	307.56	701.99	124.84	0

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				LYPES	LYPES	LYPES	LYPES	CHEAL LYPES	LYPES
Crop Code				PLANT	PLANT	PLANT	PLANT	WEED	PLANT
Part Rated				STUNT	CHLOROSIS	LEAF CURL	MOTTLE	CONTROL	REGROWTH
Rating Data Type				%	%	%	%	%	%
Rating Unit				8/17/07	8/17/07	8/17/07	8/17/07	8/17/07	8/17/07
Rating Date				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Trt-Eval Interval				POST	POST	POST	POST	POST	POST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28	29
TR122244				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
TR122244				8	0	6	0	21	38
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
TR122244				0	0	0	0	0	48
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
401401TJ				14	0	21	0	43	11
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
401401TJ				5	0	4	0	46	14
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
61161103				5	0	10	0	0	20
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
61161103				0	0	0	0	0	24
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
46TJ0203				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
46TJ0203				0	5	13	0	63	10
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code				LYPES	LYPES	LYPES	LYPES	CHEAL LYPES	LYPES
Crop Code				PLANT	PLANT	PLANT	PLANT	WEED	PLANT
Part Rated				STUNT	CHLOROSIS	LEAF CURL	MOTTLE	CONTROL	REGROWTH
Rating Data Type				%	%	%	%	%	%
Rating Unit				8/17/07	8/17/07	8/17/07	8/17/07	8/17/07	8/17/07
Rating Date				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Trt-Eval Interval				POST	POST	POST	POST	POST	POST
Spray Timing									
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28	29
46TJ0203				0	0	5	0	70	16
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
11111120				0	0	4	0	0	6
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
11111120				0	0	3	0	0	15
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
97045116				4	0	18	0	21	10
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
97045116				0	0	0	0	21	21
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
18818TJ0				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						
18818TJ0				10	0	9	0	18	15
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
18818TJ0				0	0	0	0	24	25
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	0	0	0	0	0
Control									
Dual Magnum	1.33	PT/A	PRE						

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TOMATO HERBICIDE LIST- TOLERANCE OF EIGHT PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Weed Code								CHEAL	
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	PLANT	WEED	PLANT
Rating Data Type				STUNT	CHLOROSIS	LEAF CURL	MOTTLE	CONTROL	REGROWTH
Rating Unit				%	%	%	%	%	%
Rating Date				8/17/07	8/17/07	8/17/07	8/17/07	8/17/07	8/17/07
Trt-Eval Interval				6 WAT	6 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	24	25	26	27	28	29
331331BF				11	0	15	0	21	0
Dual Magnum	1.33	PT/A	PRE						
Harmony	8	G/HA	POST						
NIS	0.5	PT/A	POST						
331331BF				0	0	0	0	21	13
Dual Magnum	1.33	PT/A	PRE						
Harmony	16	G/HA	POST						
NIS	0.5	PT/A	POST						
LSD (P=.05)				8.5	2.9	11.7	0	40.3	10.6
Standard Deviation				6	2	8.3	0	28.5	7.5
CV				255.5	979.8	187.48	0	185.52	63.06

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	30	31	32	34	35
Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				50 FRUIT	MKTB RED	GREEN WT	MKTB RED	GREEN WT
Rating Unit				WT/LBS	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				9/19/07	9/13/07	9/13/07	9/13/07	9/13/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
TR122244				5.7	24.1	2.3	14	1.3
Control								
Dual Magnum	1.33	PT/A	PRE					
TR122244				5.9	11.9	18.6	6.9	10.8
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
TR122244				5	11.6	21.9	6.8	12.7
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				5.1	20.9	1.8	12.1	1
Control								
Dual Magnum	1.33	PT/A	PRE					
401401TJ				6.3	16.9	5.5	9.8	3.2
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
401401TJ				5.3	24.2	6.2	14	3.6
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				6.1	25.5	1.3	14.8	0.7
Control								
Dual Magnum	1.33	PT/A	PRE					
61161103				6.8	18.1	5.9	10.5	3.4
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
61161103				5.9	24.2	6.6	14	3.8
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
46TJ0203				5.9	28.5	1.3	16.6	0.8
Control								
Dual Magnum	1.33	PT/A	PRE					
46TJ0203				6	24.3	3.6	14.1	2.1
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					

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TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	30	31	32	34	35
Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				50 FRUIT	MKTB RED	GREEN WT	MKTB RED	GREEN WT
Rating Unit				WT/LBS	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				9/19/07	9/13/07	9/13/07	9/13/07	9/13/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
46TJ0203				5.9	26	4.4	15.1	2.6
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				5.8	24.7	3.1	14.3	1.8
Control								
Dual Magnum	1.33	PT/A	PRE					
11111120				6.4	20.6	7	12	4.1
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
11111120				6.2	27.7	6.5	16.1	3.8
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				6	26.5	3	15.4	1.7
Control								
Dual Magnum	1.33	PT/A	PRE					
97045116				6.4	20.8	9.9	12.1	5.7
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
97045116				5.6	21	9.2	12.2	5.3
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
18818TJ0				5.8	26.2	1.2	15.2	0.7
Control								
Dual Magnum	1.33	PT/A	PRE					
18818TJ0				5.1	22.4	5.2	13	3
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
18818TJ0				5.8	25.1	8.1	14.6	4.7
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				5.9	29.5	2.2	17.1	1.3
Control								
Dual Magnum	1.33	PT/A	PRE					

The Ohio State University

TOMATO - TOLERANCE OF EIGHT
PROCESSING VARIETIES TO HARMONY GT

Trial ID: TOMHARMGTW07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Wooster, Ohio

Treatment Name	Product Rate	Product Rate Unit	Grow Stg	30	31	32	34	35
Weed Code								
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				50 FRUIT	MKTB RED	GREEN WT	MKTB RED	GREEN WT
Rating Unit				WT/LBS	LBS/PLOT	LBS/PLOT	TONS/A	TONS/A
Rating Date				9/19/07	9/13/07	9/13/07	9/13/07	9/13/07
Trt-Eval Interval				HARVEST	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing								
331331BF				6.1	20	3.2	11.6	1.8
Dual Magnum	1.33	PT/A	PRE					
Harmony	8	G/HA	POST					
NIS	0.5	PT/A	POST					
331331BF				5.8	30.3	10.8	17.6	6.3
Dual Magnum	1.33	PT/A	PRE					
Harmony	16	G/HA	POST					
NIS	0.5	PT/A	POST					
LSD (P=.05)				0.86	8.33	4.19	4.84	2.43
Standard Deviation				0.61	5.89	2.96	3.42	1.72
CV				10.39	25.67	47.83	25.67	47.83

The Ohio State University

TOMATO - WEED CONTROL AND CROP TOLERANCE IN PROCESSING TOMATOES WITH V-10142

Trial ID: TOMV10142F07 Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio Investigator: Doug Doohan

Trial Summary: This trial evaluated V-10142 as a potential herbicide for processing tomatoes for pre-transplant (PRETP) and post-transplant (POSTTP) weed control. There were 3 rates, (4.3, 6.4, and 8.5 oz/A) for each timing. Kinetic (0.5pt/A) was added to all POSTTP treatments. A split application of 8.5 oz PRETP plus 8.5 oz POSTTP + NIS at (0.5pt/A) was also included. No tomato injury was observed with any of the treatments. PRETP treatments provided poor control of annual grass and lambsquarters, and fair control of purslane. The split application provided the best overall weed control of any of the treatments, (88% or better with annual grasses, lambsquarters and purslane at 1 week after treatment). Plots were hand-weeded after this rating. There were no significant differences in yield among the treatments.

TRIAL LOCATION

City: Fremont Trial Status: Final
State/Prov.: Ohio Trial Reliability: Reliable
Postal Code: 44691 Initiation Date: 05/29/07
Country: USA Planned Completion Date: 11/30/07

Objective: To evaluate V-10142 pre- transplant (PRETP) and post- transplant (POSTTP) on processing tomatoes for crop tolerance and weed control.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name
1	POROL	*common purslane*
2	CHEAL	*common lambsquarter*
3	AGRASS	*annual grasses*

Crop 1: LYPES PROCESSING TOMATO Variety: PETO 696
Planting Date: 06/05/07 Planting Method: CONVENTIONAL
Rate: 1 PER FT Depth: 2 IN
Row Spacing: 5 FT Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 5 FT Plot Length, Unit: 25 FT
Site Type: LEVEL FIELD Reps: 4
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 20 % OM: 4.4 Texture: SILTY CLAY LOAM
% Silt: 41 pH: 6.6 Soil Name: HOYTVILLE
% Clay: 39 CEC: 27 Fert. Level: MODERATE

APPLICATION DESCRIPTION

	A	B
Application Date:	5/29/2007	6/6/2007
Time of Day:	2 PM	10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	59.3 F	60.9 F
% Relative Humidity:	76.3	63.1
Wind Velocity, Unit:	2.5 MPH	4.9 MPH
Soil Moisture:	DRY	DRY
% Cloud Cover:	100	80

The Ohio State University

TOMATO - WEED CONTROL AND CROP TOLERANCE IN PROCESSING TOMATOES WITH V-10142

Trial ID: TOMV10142F07 Study Dir.: Doug Doohan and T. Koch
Location: Fremont, Ohio Investigator: Doug Doohan

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES, PRETP	LYPES, POSTTP
Stage Scale:	.	POST TRANSPLANT
Height, Unit:	0. .	7 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	POROL, PRETP	POROL, POSTTP
Stage Scale:	.	2-4 LF
Density, Unit:	. .	LOW, PLOT
Weed 2 Code, Stage:	CHEAL, PRETP	CHEAL, POSTTP
Stage Scale:	.	4-6 LF
Density, Unit:	. .	LOW, PLOT
Weed 3 Code, Stage:	AGRASS, PRETP	AGRASS, POSTTP
Stage Scale:	.	1-3 LF
Density, Unit:	. .	LOW, PLOT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	35	35
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002VS	8002VS
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	2	2
Band Width, Unit:	3 FT	3 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

The Ohio State University

TOMATO - WEED CONTROL AND CROP TOLERANCE IN PROCESSING TOMATOES WITH V-10142

Trial ID: TOMV10142F07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code							AGRASS	CHEAL	POROL
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				STUNT	LEAF CURL	CHLOROSIS	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/6/07	6/6/07	6/6/07	6/6/07	6/6/07	6/6/07
Trt-Eval Interval				1WAT	1WAT	1WAT	1WAT	1WAT	1WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	1	2	3	4	5	6
CONTROL				0	0	0	0	0	0
DUAL MAGNUM+	1.33	PT/A	PRETP	1	0	5	90	97	96
SENCOR+	10	OZ/A	PRETP						
V-10142	4.27	OZ/A	PRETP	0	0	5	33	46	78
V-10142	6.4	OZ/A	PRETP	0	0	4	65	65	36
V-10142	8.5	OZ/A	PRETP	0	0	4	73	60	77
V-10142	8.5	OZ/A	PRETP	0	0	9	79	69	81
V-10142+	8.5	OZ/A	POSTTP						
NIS	0.5	PT/A	POSTTP						
V-10142+	4.27	OZ/A	POSTTP						
KINETIC	0.5	PT/A	POSTTP						
V-10142+	6.4	OZ/A	POSTTP						
KINETIC	0.5	PT/A	POSTTP						
V-10142+	8.5	OZ/A	POSTTP						
KINETIC	0.5	PT/A	POSTTP						
DUAL MAGNUM+	1.33	PT/A	POSTTP						
SENCOR+	10	OZ/A	POSTTP						
LSD (P=.05)				1.5	0	7.2	27.8	43.5	31.5
Standard Deviation				1	0	4.8	18.4	28.8	20.9
CV				489.9	0	109.59	32.72	51.51	34.12

The Ohio State University

TOMATO - WEED CONTROL AND CROP TOLERANCE IN PROCESSING TOMATOES WITH V-10142

Trial ID: TOMV10142F07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code							AGRASS	POROL	CHEAL
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	PLANT	WEED	WEED	WEED
Rating Data Type				STUNT	LEAF CURL	CHLOROSIS	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/13/07	6/13/07	6/13/07	6/13/07	6/13/07	6/13/07
Trt-Eval Interval				2WAT	2WAT	2WAT	2WAT	2WAT	2WAT
Spray Timing				PRE	PRE	PRE	PRE	PRE	PRE
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	7	8	9	10	11	12
CONTROL				0	0	0	0	0	0
DUAL MAGNUM+	1.33	PT/A	PRETP	0	0	0	92	91	60
SENCOR+	10	OZ/A	PRETP						
V-10142	4.27	OZ/A	PRETP	0	0	0	46	49	8
V-10142	6.4	OZ/A	PRETP	0	0	0	45	35	2
V-10142	8.5	OZ/A	PRETP	0	0	0	47	61	13
V-10142	8.5	OZ/A	PRETP	0	0	0	61	80	81
V-10142+	8.5	OZ/A	POSTTP						
NIS	0.5	PT/A	POSTTP						
V-10142+	4.27	OZ/A	POSTTP						
KINETIC	0.5	PT/A	POSTTP						
V-10142+	6.4	OZ/A	POSTTP						
KINETIC	0.5	PT/A	POSTTP						
V-10142+	8.5	OZ/A	POSTTP						
KINETIC	0.5	PT/A	POSTTP						
DUAL MAGNUM+	1.33	PT/A	POSTTP						
SENCOR+	10	OZ/A	POSTTP						
LSD (P=.05)				0	0	0	44.9	23	33.5
Standard Deviation				0	0	0	29.8	15.3	22.1
CV				0	0	0	61.4	28.96	81.41

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TOMATO - WEED CONTROL AND CROP TOLERANCE IN PROCESSING TOMATOES WITH V-10142

Trial ID: TOMV10142F07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code					AGRASS	CHEAL	POROL		
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	WEED	WEED	WEED	PLANT	PLANT
Rating Data Type				STUNT	CONTROL	CONTROL	CONTROL	STUNT	BURN
Rating Unit				%	%	%	%	%	%
Rating Date				6/20/07	6/20/07	6/20/07	6/20/07	6/13/07	6/13/07
Trt-Eval Interval				3WAT	3WAT	3WAT	3WAT	1WAT	1WAT
Spray Timing				PRE	PRE	PRE	PRE	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	13	14	15	16	17	18
CONTROL				0	0	0	0	0	0
DUAL MAGNUM+	1.33	PT/A	PRETP	0	60	58	89		
SENCOR+	10	OZ/A	PRETP						
V-10142	4.27	OZ/A	PRETP	0	14	18	41		
V-10142	6.4	OZ/A	PRETP	0	29	19	48		
V-10142	8.5	OZ/A	PRETP	0	43	31	66		
V-10142	8.5	OZ/A	PRETP	0	19	58	69	0	0
V-10142+	8.5	OZ/A	POSTTP						
NIS	0.5	PT/A	POSTTP						
V-10142+	4.27	OZ/A	POSTTP					0	0
KINETIC	0.5	PT/A	POSTTP						
V-10142+	6.4	OZ/A	POSTTP					0	0
KINETIC	0.5	PT/A	POSTTP						
V-10142+	8.5	OZ/A	POSTTP					0	0
KINETIC	0.5	PT/A	POSTTP						
DUAL MAGNUM+	1.33	PT/A	POSTTP					0	0
SENCOR+	10	OZ/A	POSTTP						
LSD (P=.05)				0	26.8	26.2	22.8	0	0
Standard Deviation				0	17.8	17.4	15.2	0	0
CV				0	65.11	57.21	29.1	0	0

The Ohio State University

TOMATO - WEED CONTROL AND CROP TOLERANCE IN PROCESSING TOMATOES WITH V-10142

Trial ID: TOMV10142F07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code						AGRASS	POROL	CHEAL	
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				PLANT	PLANT	WEED	WEED	WEED	PLANT
Rating Data Type				LEAF CURL	CHLOROSIS	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit				%	%	%	%	%	%
Rating Date				6/13/07	6/13/07	6/13/07	6/13/07	6/13/07	6/27/07
Trt-Eval Interval				1WAT	1WAT	1WAT	1WAT	1WAT	3WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	19	20	21	22	23	24
CONTROL				0	0	0	0	0	0
DUAL MAGNUM+	1.33	PT/A	PRETP						
SENCOR+	10	OZ/A	PRETP						
V-10142	4.27	OZ/A	PRETP						
V-10142	6.4	OZ/A	PRETP						
V-10142	8.5	OZ/A	PRETP						
V-10142	8.5	OZ/A	PRETP	0	0	93	88	90	0
V-10142+	8.5	OZ/A	POSTTP						
NIS	0.5	PT/A	POSTTP						
V-10142+	4.27	OZ/A	POSTTP	0	0	46	71	45	0
KINETIC	0.5	PT/A	POSTTP						
V-10142+	6.4	OZ/A	POSTTP	0	0	23	60	44	0
KINETIC	0.5	PT/A	POSTTP						
V-10142+	8.5	OZ/A	POSTTP	0	0	39	64	58	0
KINETIC	0.5	PT/A	POSTTP						
DUAL MAGNUM+	1.33	PT/A	POSTTP	0	0	88	98	96	0
SENCOR+	10	OZ/A	POSTTP						
LSD (P=.05)				0	0	54.9	25.2	51.6	0
Standard Deviation				0	0	36.4	16.8	34.3	0
CV				0	0	76.08	26.42	61.92	0

The Ohio State University

TOMATO - WEED CONTROL AND CROP TOLERANCE IN PROCESSING TOMATOES WITH V-10142

Trial ID: TOMV10142F07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code				AGRASS	CHEAL	POROL		AGRASS	CHEAL
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	WEED	WEED	PLANT	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	STUNT	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Rating Date				6/27/07	6/27/07	6/27/07	7/18/07	7/18/07	7/18/07
Trt-Eval Interval				3WAT	3WAT	3WAT	6WAT	6WAT	6WAT
Spray Timing				POST	POST	POST	POST	POST	POST
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	25	26	27	28	29	30
CONTROL				0	0	0	0	0	0
DUAL MAGNUM+	1.33	PT/A	PRETP						
SENCOR+	10	OZ/A	PRETP						
V-10142	4.27	OZ/A	PRETP						
V-10142	6.4	OZ/A	PRETP						
V-10142	8.5	OZ/A	PRETP						
V-10142	8.5	OZ/A	PRETP	99	99	99	0	95	100
V-10142+	8.5	OZ/A	POSTTP						
NIS	0.5	PT/A	POSTTP						
V-10142+	4.27	OZ/A	POSTTP	99	99	99	0	91	99
KINETIC	0.5	PT/A	POSTTP						
V-10142+	6.4	OZ/A	POSTTP	99	99	99	1	95	100
KINETIC	0.5	PT/A	POSTTP						
V-10142+	8.5	OZ/A	POSTTP	99	99	99	0	95	99
KINETIC	0.5	PT/A	POSTTP						
DUAL MAGNUM+	1.33	PT/A	POSTTP	99	99	99	0	96	100
SENCOR+	10	OZ/A	POSTTP						
LSD (P=.05)				0	0	0	1.5	5.7	2.2
Standard Deviation				0	0	0	1	3.8	1.5
CV				0	0	0	489.9	4.83	1.8

The Ohio State University

TOMATO - WEED CONTROL AND CROP TOLERANCE IN PROCESSING TOMATOES WITH V-10142

Trial ID: TOMV10142F07
Study Dir.: Doug Doohan and T.Koch
Investigator: Doug Doohan
Location: Fremont, Ohio

Weed Code				POROL				
Crop Code				LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated				WEED	FRUIT	FRUIT	FRUIT	FRUIT
Rating Data Type				CONTROL	50 FRUIT	MKTB RED WT	GREEN WT	MKTB RED
Rating Unit				%	WT/LBS	LBS/PLOT	LBS/PLOT	TONS/A
Rating Date				7/18/07	9/13/07	9/13/07	9/13/07	9/13/07
Trt-Eval Interval				6WAT	HARVEST	HARVEST	HARVEST	HARVEST
Spray Timing				POST				
Treatment Name	Product Rate	Product Rate Unit	Grow Stg	31	32	33	34	36
CONTROL				0	6.36	51.8	1.9	9.02
DUAL MAGNUM+	1.33	PT/A	PRETP		6.46	154.8	2	26.96
SENCOR+	10	OZ/A	PRETP					
V-10142	4.27	OZ/A	PRETP		6.34	148.4	2.3	25.85
V-10142	6.4	OZ/A	PRETP		6.43	170.8	3.1	29.75
V-10142	8.5	OZ/A	PRETP		6.55	165.1	3.6	28.77
V-10142	8.5	OZ/A	PRETP	95	6.5	172.3	3.8	30.01
V-10142+	8.5	OZ/A	POSTTP					
NIS	0.5	PT/A	POSTTP					
V-10142+	4.27	OZ/A	POSTTP	93	6.54	154.6	4.1	26.94
KINETIC	0.5	PT/A	POSTTP					
V-10142+	6.4	OZ/A	POSTTP	95	6.67	152.6	1.8	26.59
KINETIC	0.5	PT/A	POSTTP					
V-10142+	8.5	OZ/A	POSTTP	95	6.35	147.8	3.3	25.74
KINETIC	0.5	PT/A	POSTTP					
DUAL MAGNUM+	1.33	PT/A	POSTTP	83	6.65	171.1	4	29.82
SENCOR+	10	OZ/A	POSTTP					
LSD (P=.05)				12.3	0.379	34.63	2.7	6.034
Standard Deviation				8.1	0.261	23.87	1.86	4.159
CV				10.61	4.02	16.03	62.46	16.03